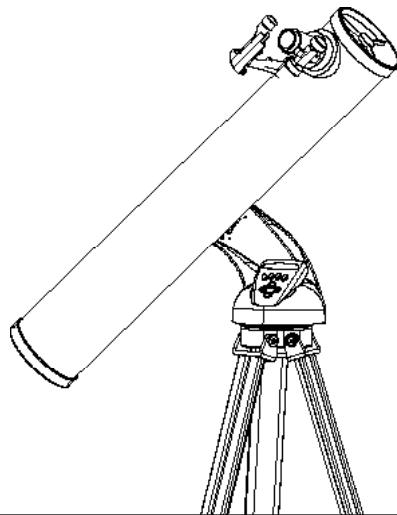


Bushnell

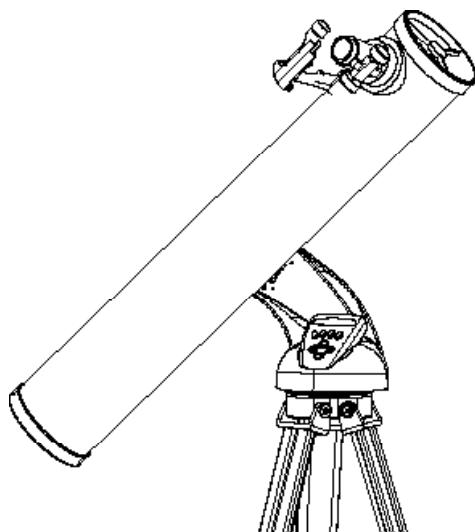


78-8830 76mm Reflector

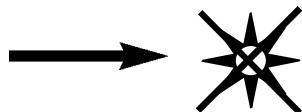


Instruction Manual

78-8845 114mm Reflector



Never Look Directly At The Sun
With Your Telescope



Permanent Damage To Your Eyes
May Occur



WHERE DO I START?

Your Bushnell telescope can bring the wonders of the universe to your eye. While this manual is intended to assist you in the set-up and basic use of this instrument, it does not cover everything you might like to know about astronomy. Although Northstar will give a respectable tour of the night sky, it is recommended you get a very simple star chart and a flashlight with a red bulb or red cellophane over the end. For objects other than stars and constellations, a basic guide to astronomy is a must. Some recommended sources appear on our website at www.bushnell.com. Also on our website will be current events in the sky for suggested viewing. But, some of the standbys that you can see are:

The Moon—a wonderful view of our lunar neighbor can be enjoyed with any magnification. Try viewing at different phases of the moon. Lunar highlands, lunar maria (lowlands called "seas" for their dark coloration), craters, ridges and mountains will astound you.

Saturn—even at the lowest power you should be able to see Saturn's rings and moons. This is one of the most satisfying objects in the sky to see simply because it looks like it does in pictures. Imagine seeing what you've seen in textbooks or NASA images from your backyard!

Jupiter—the largest planet in our solar system is spectacular. Most noted features are its dark stripes or bands both above and below its equator. These are the north and south equatorial belts. Also interesting are Jupiter's four major moons. Pay close attention to their positions from night to night. They appear to be lined up on either side of Jupiter.

Mars—The Great Red Planet appears as a reddish-orange disk. Look at different times of the year and try to catch a glimpse of the white polar ice caps.

Venus—just like the moon, Venus changes phases from month to month. At times Venus appears brilliantly in the night sky, just as if you were looking at a distant crescent moon.

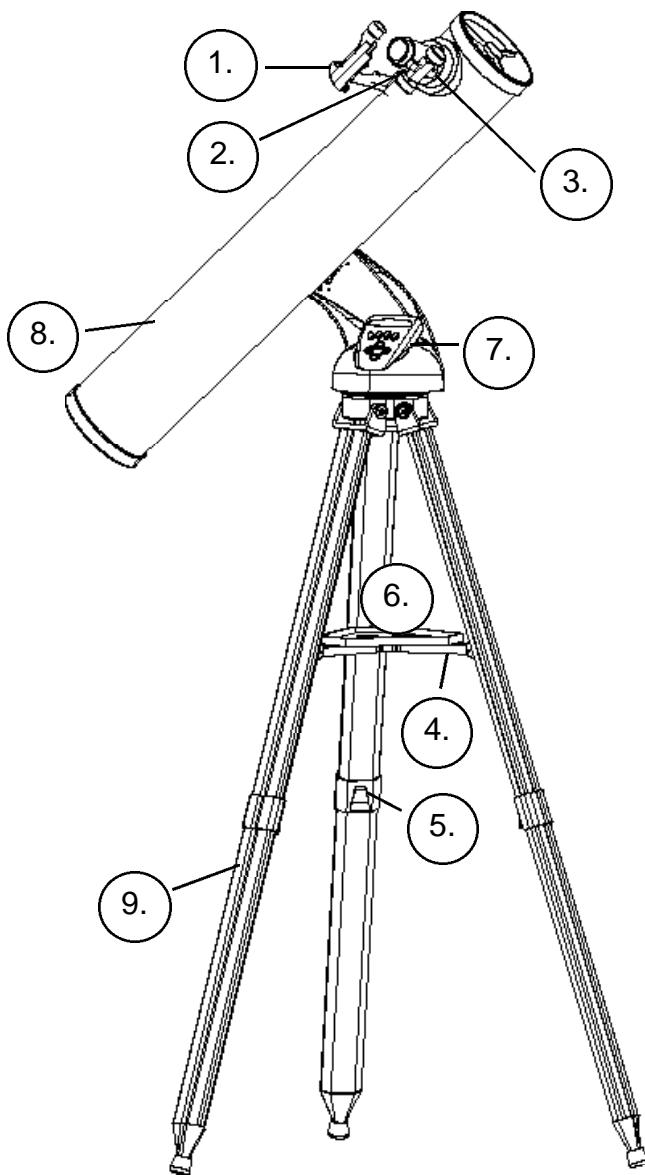
Nebulae—The Great Orion Nebula is a very well known night sky object. This and many others are brought to you by this telescope.

Star Clusters—View millions of stars densely packed in a cluster that resembles a ball.

Galaxies—One of the greatest and most interesting galaxies is our neighbor the Andromeda Galaxy. Enjoy this and many others.

Parts Diagrams

78-8830 76mm and 78-8845 114mm Reflectors

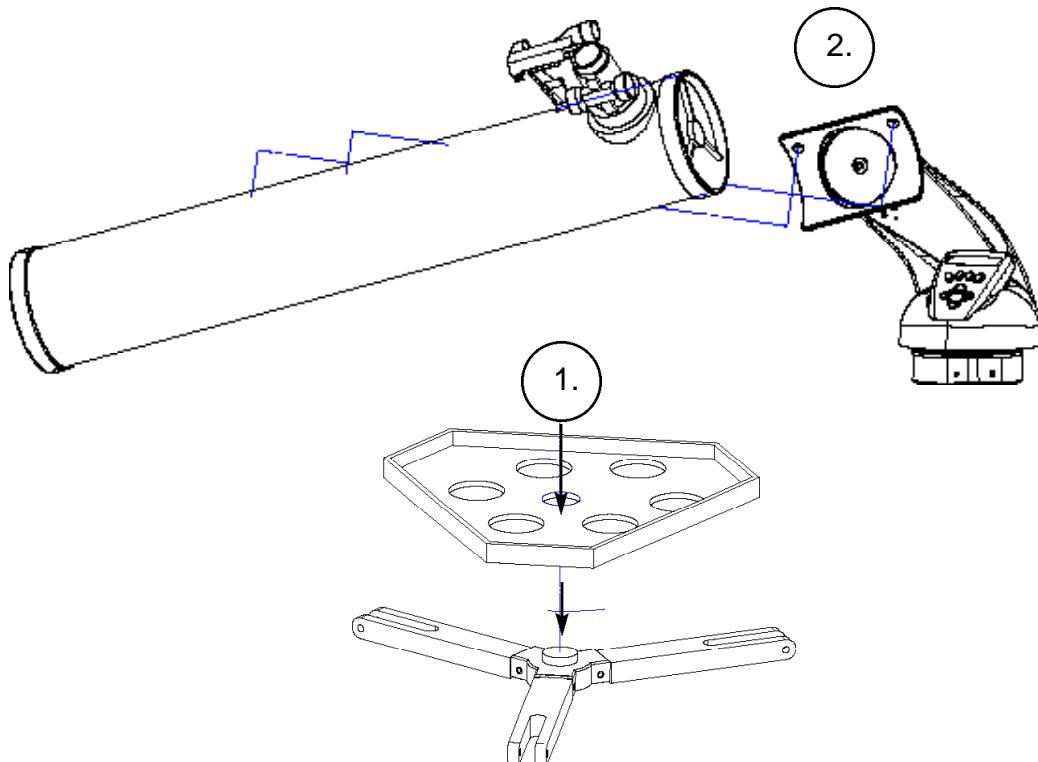


Telescope Parts Diagram

- | | |
|---------------------------------------|---|
| 1. Red Dot Finderscope | 6. Quick-Release Accessory Tray |
| 2. 1.25" Format Eyepiece | 7. Remote Computer Controller |
| 3. Rack and Pinion Focusing Mechanism | 8. Main Telescope Tube |
| 4. Accessory Tray Brace | 9. Quick-Release Adjustable Aluminum Tripod |
| 5. Quick-Release Tripod Leg Lever | |

QUICK ASSEMBLY DIAGRAM

78-8830 76mm and 78-8845 114mm Reflectors



PARTS LIST

- Adjustable Aluminum Tripod Assembly
(Pre-assembled to Northstar Computerized Star Locator Base)
- Quick Release Accessory Tray
- Northstar Telescope with finger attachment nuts
- Red Dot Finderscope
- 20mm 1.25" Diameter Eyepiece
- 4mm 1.25" Diameter Eyepiece
- Barlow Lens

DETAILED ASSEMBLY

No tools are required for assembly of your telescope.

Remove all components from the carton and identify all components. It is a good idea to lay all the parts out in front of you before assembly. Since your telescope is a precision optical system the parts require careful handling—particularly the onboard computer, telescope, eyepieces, and various accessory lenses.

SET UP TRIPOD AND ACCESSORY TRAY

1. Stand Northstar Computerized Star Locator Assembly and attached tripod legs in the upright position. Spread tripod legs to a comfortable distance.
2. Fold down the accessory tray braces and place the Quick Release Accessory Tray on top of braces. (See Quick Assembly Diagram)
3. Turn accessory tray until it snaps into place.
4. Adjust tripod leg height to suit by opening tripod leg lever and extending tripod legs to desired height. Clamp Tripod Leg lever closed when complete.

ATTACH TELESCOPE TUBE

1. Locate Main Telescope Tube.
2. Remove Telescope Tube Thumb Nuts from side of Telescope Tube.
(See Quick Assembly Diagram)
3. Position Main Telescope Tube Attachment Bolts through Telescope Tube Bracket at the top of the Northstar Computerized Star Locator Assembly. Make sure the telescope is pointing in the correct direction. (Logo on telescope tube should be right-side up.)
4. Reattach Telescope Tube Thumb Nuts to Main Telescope Tube Attachment Bolts once Main Telescope Tube and Northstar Computerized Star Locator Assembly are assembled together.

ATTACH FINAL TELESCOPE ACCESSORIES

1. Locate Red Dot Finderscope.

For Reflector Telescopes: Remove Finderscope attachment nuts from Main Telescope Tube. Place Finderscope Assembly over Finderscope Attachment Bolts and reattach Finderscope thumb nuts to Finderscope Mount Bolts.

NOTE: The large end of the finderscope should face the open end of telescope tube.

2. Attach Low Power Eyepiece.

For Reflector Telescope Models: Insert lowest power eyepiece in the focusing mechanism by backing out eyepiece set screw and inserting eyepiece fully.

3. Tighten all set screws to secure accessories.
4. Remove Objective Dust Cover exposing entire diameter of open end of telescope.

SELECTING AN EYEPiece

You should always start viewing with the lowest power eyepiece, which in this case is the 20 mm lens. Note: the base power of each eyepiece is determined by the focal length of the telescope objective lens. A formula can be used to determine the power of each eyepiece: telescope OBJECTIVE lens focal length divided by EYEPiece focal length = MAGNIFICATION (e.g. Using the 20 mm lens, a sample calculation could look like this: $750 \text{ mm} / 20 = 38x$ or 38 power. Telescope models will vary in focal length.)

Included with this telescope is a Barlow lens. Barlow lenses are used to double or triple the power of your telescope. Place your Barlow between the focusing tube and the eyepiece. Using the example above, your 3x Barlow lens would give you a total power of 114x or 114 power. ($38 \times 3 = 114x$ or 114 power). The magnification calculation would look like this: $750 \text{ mm} / 20\text{mm} = 38$ power. 38 power $\times 3=114$ power.

DETAILED ASSEMBLY (CONTINUED)

FOCUSING TELESCOPE

1. After selecting the desired eyepiece, aim main telescope tube at a land-based target at least 200 yards away (e.g. a telephone pole or building).
2. Fully extend Focusing Tube by turning Rack and Pinion Focusing Mechanism.
3. While looking through selected eyepiece (in this case the 20 mm), slowly retract Focusing Tube by turning Rack and Pinion Focusing Mechanism until object comes into focus.

ATTACH REMOTE COMPUTER CONTROLLER AND BATTERY

1. Locate Remote Computer Controller and coil cord.
2. Locate Battery Door on Northstar Computerized Star Locator Base.
3. Remove Battery Door and insert one 9V battery.
4. Replace Battery Door.
5. Attach Remote Computer Controller with coil cord to Northstar Computerized Star Locator Base.

ALIGNING FINDERSCOPE

Look through Main Telescope Tube and establish a well-defined target. (see Focusing Telescope section)

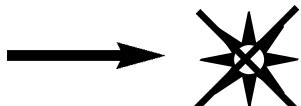
Remove plastic insulator from between Red Dot Finderscope battery and battery clip.

Turn Red Dot Finderscope on.

Looking through Red Dot Finderscope, turn adjustment wheels until the red dot is precisely centered on the same object already centered in Main Telescope Tube's field of view.

Now, objects located first with the Red Dot Finderscope will be centered in the field of view of the main telescope.

Never Look Directly At The Sun
With Your Telescope



Permanent Damage To Your Eyes
May Occur



ENJOYING YOUR NEW TELESCOPE

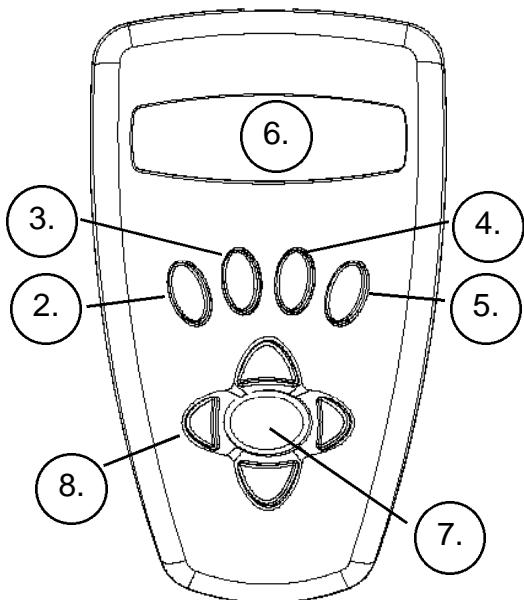
1. First determine your targeted object. Any bright object in the night sky is a good starting point. One of the favorite starting points in astronomy is the moon. This is an object sure to please any budding astronomer or experienced veteran. When you have developed proficiency at this level, other objects become good targets. Saturn, Mars, Jupiter, and Venus are good second steps to take.
2. The first thing you need to do after assembling the telescope as planned is center the desired object in the finderscope's cross hairs. Provided you did a reasonable job aligning the finderscope, a quick look through the main telescope tube at low power should reveal the same image. With the lowest power eyepiece (the one with the largest number printed on it) you should be able to focus the same image that you saw through the finderscope. Avoid the temptation to move directly to the highest power. The low power eyepiece will give you a wider field of view, and brighter image—thus making it very easy to find your target object. At this point with a focused image in both scopes, you've passed the first obstacle. If you don't see an image after attempting to focus it in, you might consider aligning your finderscope again. Once you pass this step, you'll will enjoy the time spent ensuring a good alignment. Every object you center in the finderscope will be easily found in the main telescope tube, which is important for continuing your exploration of the night sky.
3. The low power eyepieces are perfect for viewing the full moon, planets, star clusters, nebulae, and even constellations. These should build your foundation. However, for more detail, try bumping up in magnification to higher power eyepieces on some of these objects. During calm and crisp nights, the light/dark separation line on the moon (called the "Terminator") is marvelous at high power. You can see mountains, ridges and craters jump out at you due to the highlights. Similarly, you can move up to higher magnifications on the planets and nebulae. Star clusters and individual stars are best viewed through the low power no matter what.
4. The recurring astronomical theater we call the night sky is an ever-changing billboard. In other words, the same movie does not play all the time. Rather, the positions of the stars change not only hourly as they seem to rise and set, but also throughout the year. As the earth orbits the sun our perspective on the stars changes on a yearly cycle about that orbit. The reason the sky seems to move daily just as the sun and the moon "move" across our sky is that the earth is rotating about its axis. As a result you may notice that after a few minutes or a few seconds depending on what power you are viewing at, the objects in your telescope will move. At higher magnifications especially, you will notice that the moon or Jupiter will "race" right out of the field of view. To compensate, just move your telescope to "track" it in the necessary path.

HELPFUL HINTS

1. Your telescope is a very sensitive instrument. For best results and fewer vibrations set your telescope up on a level location on the ground rather than your concrete driveway or your wooden deck. This will provide a more stable foundation for viewing, especially if you've drawn a crowd with your new telescope.
2. If possible view from a location that has relatively few lights. This will allow you to see much fainter objects. You'd be surprised how much more you'll see from your local lake or park when compared to a backyard in the city.
3. Using your telescope out a window is NEVER recommended.
4. View objects that are high in the sky if possible. Waiting until the object rises well above the horizon will provide a brighter and crisper image. Objects on the horizon are viewed through several layers of earth's atmosphere. Ever wonder why the moon appears orange as it sets on the horizon? It's because you are looking through a considerable more amount of atmosphere than you would directly overhead. (Note: If objects high in the sky are distorted or wavy, you are probably viewing on a very humid night.) During nights of unstable atmosphere, viewing through a telescope can be frustrating if not impossible. Astronomers refer to crisp, clear nights as nights of "good seeing."

NORTHSTAR COMPUTER INTERFACE DIAGRAM

1. On/Off Button (On Northstar Base)
2. Back Button
3. Enter Button
4. Scroll Up Button
5. Scroll Down Button
6. LCD Display
7. "GO" Button
8. Motorized Movement Buttons (4)
9. Battery Door (On Northstar Base)



BUTTON FUNCTIONS

ALL BUTTONS ARE ILLUMINATED FOR NIGHTTIME USE.

On/Off Button: The On/Off Button will turn the Northstar Computerized Star Locator on and off. This button flashes or strobes on and off during normal use. To turn the unit off, simply depress and hold the On/Off button for three seconds and release. (Note: The Northstar Computerized Star Locator will automatically turn itself off after 10 minutes of inactivity.)

Back Button: This button functions to navigate to the previous level within the operating framework and/or back to the previous level of input.

Enter Button: This button functions to select certain menu choices. By pressing the ENTER button Northstar will advance to the selected level. When an object name or number is listed on the screen, the ENTER button can also be pressed to display a scrolling text description of the object.

Scroll Up Button: This button functions to scroll up through various menus within Northstar. Anytime you encounter a blinking text/number option, the scroll button will display the various choices within that menu. (Note: To select an option that you have scrolled to, just press the ENTER button.)

Scroll Down Button: This button functions to scroll down through various menus within Northstar. Anytime you encounter a blinking text/number option, the scroll button will display the various choices within that menu. (Note: To select an option that you have scrolled to, just press the ENTER button.)

"GO" Button: The GO button will automatically center any object displayed on the LCD display. By pushing the "GO" button, the telescope will automatically find and follow the selected object until another object is selected and the "GO" button is pushed again.

Motorized Movement Buttons: These four multi-directional buttons will allow the user to override the tracking system and move the telescope utilizing the motors manually to another desired location. The longer these buttons are depressed, the faster the Northstar will move until it reaches its maximum speed.

LCD DISPLAY

The Liquid Crystal Display (LCD) is a two-line, sixteen character display. The LCD is illuminated for use during nighttime viewing just like the buttons.

MODE OVERVIEW OF PRODUCT

Explore: The Explore Mode of Northstar provides the ability to explore various astronomical objects categorized by object type. These objects would fall under one or more of the following types of objects: Deep Sky, Planets, Constellations, and Stars. Each of these subheadings would also have subcategories of objects beneath their menu structure. (See Menu Tree for full list of menu functions and options.)

Sky Tour: The Sky Tour Mode of Northstar provides the ability to take a quick tour of the best and brightest objects for any given month of the year. If the date has been input into the system, the Sky Tour Mode will automatically default to that month. Objects can be chosen by using the scroll up or down arrows and pressing ENTER. To find out more information about any given object press the ENTER button while that object is displayed to see the scrolling text message.

Telescope: The Telescope Mode of Northstar provides real-time data on where the telescope is pointing. Astronomical Coordinates for Right Ascension (RA) and Declination (DEC) as well as Altitude (ALT) and Azimuth (AZ) are displayed simultaneously. In addition, in the lower right-hand corner will be the abbreviation for the current constellation that the telescope is pointed at.

Identify: The Identify Mode of Northstar provides the ability to identify any object within your telescope field of view. Subcategories for different classes of identifiable objects are included as well as an Identify Any option.

Align Earth: The Align Earth Mode of Northstar provides the ability to easily align your telescope utilizing common information non-astronomers would readily know. By entering simple information such as time, date, city, etc. a first time telescope user can explore the immense Northstar database of astronomical objects within minutes.

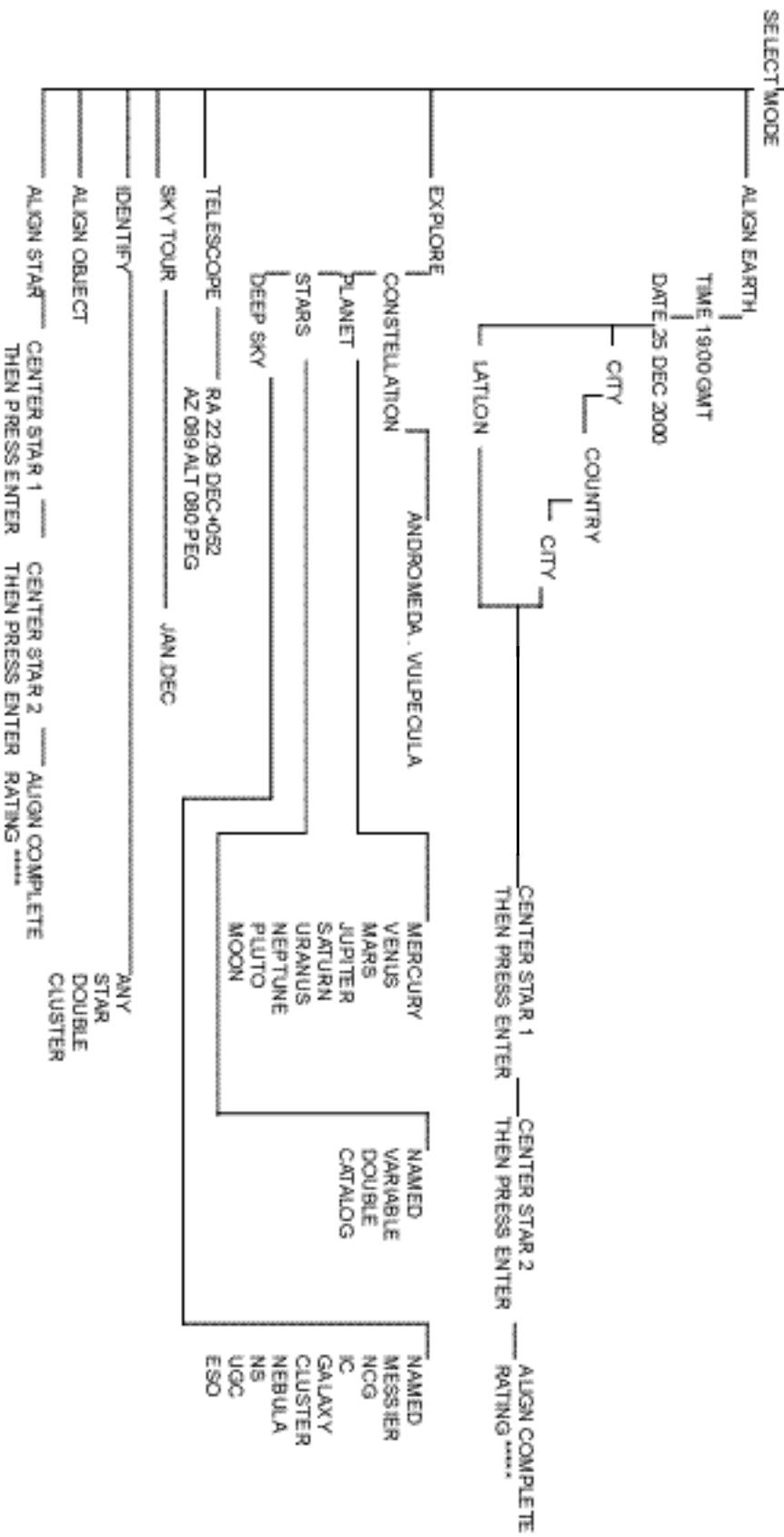
Align Star: The Align Star Mode of Northstar provides the ability to align your telescope utilizing some astronomical knowledge. By knowing where two stars are located in the sky, a novice user can circumvent the city, date, and time input and quickly start utilizing the Northstar database to locate amazing astronomical objects.

Align Object: The Align Object Mode of Northstar provides the ability to refine your telescope alignment during the middle of your observing session. This might come in very handy if the family dog has just bumped the telescope out of alignment. By using this mode you can center the telescope on any known object and select align object to quickly recalibrate the Northstar alignment allowing continued enjoyment for the duration of the evening.

MENU TREE

BUSHNELL NORTHSTAR COMPUTER MENU STRUCTURE (For Step-By-Step Easy Use Refer to Quick Reference Guide)

WELCOME TO BUSHNELL NORTHSTAR



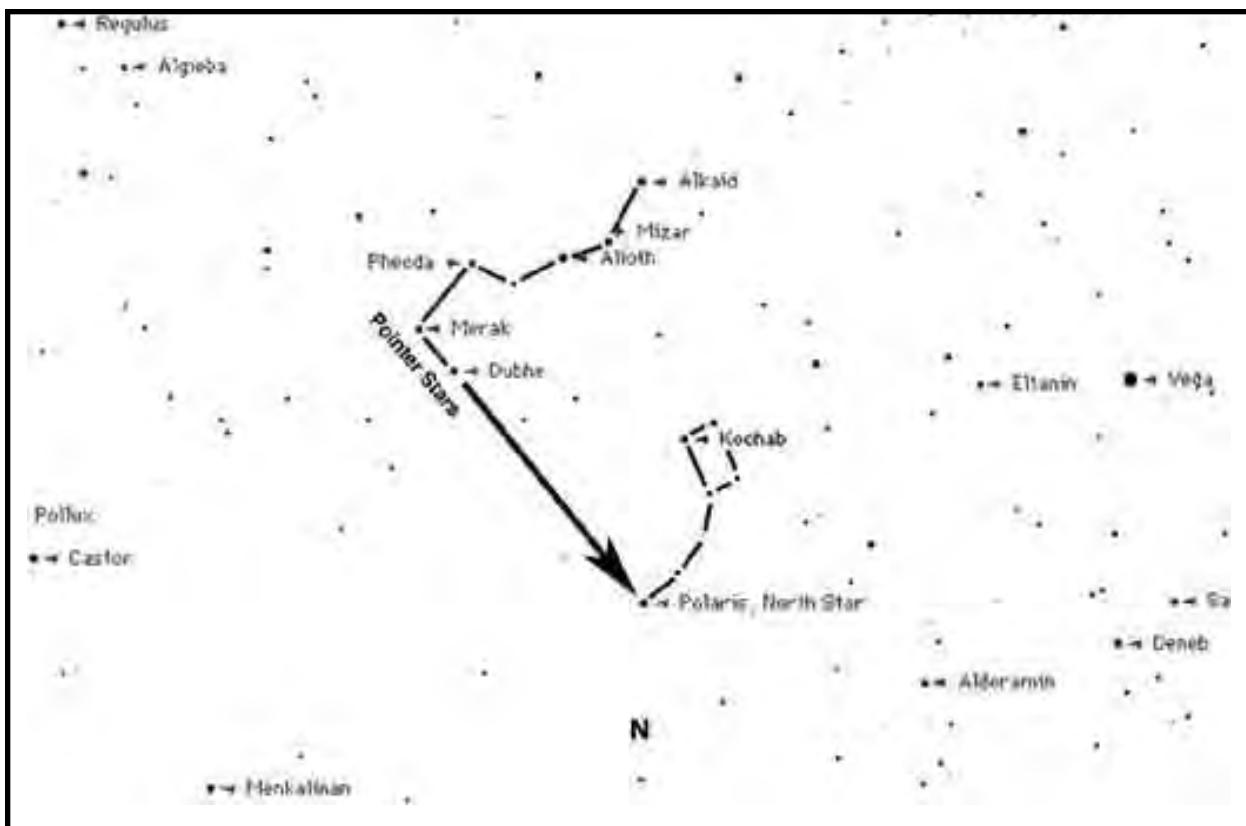
ALIGNING NORTHSTAR FOR THE FIRST TIME

(NOTE: Make certain that the telescope is set up on a level surface.)

STEP 1: POINT NORTH

Point the telescope in the direction of North.

NOTE: THE USER SHOULD JUST ATTEMPT TO GET THE TELESCOPE POINTED RELATIVELY CLOSE TO NORTH. THE ALIGNMENT WILL BE REFINED AS WE PROGRESS. HOWEVER, IF YOU CAN FIND THE BIG DIPPER AND USE THE "POINTER STARS", FOLLOW THE ARROW ON THE DIAGRAM TO THE NORTH STAR. THE NORTH STAR LIES DIRECTLY ABOVE DUE NORTH!



When you turn the telescope on, a scrolling message will appear:

BUSHNELL NORTHSTAR UXxx

Following this message, the telescope will execute a diagnostic check and level the telescope tube in relation to the telescope mount.

Then the default menu will appear:

SELECT MODE
ALIGN EARTH 44

This mode assumes that even if the telescope user is a first time user and does not know anything about astronomy that they can be successful aligning the telescope in a few simple steps.

The ALIGN EARTH option is flashing.

Press ENTER to choose ALIGN EARTH option.

NOTE: ANY FLASHING ITEM ON THE DISPLAY IS A MENU CHOICE. OTHER CHOICES ARE AVAILABLE BY USING THE SCROLL UP OR SCROLL DOWN BUTTONS.

ALIGNING NORTHSTAR FOR THE FIRST TIME (Continued)

STEP 2: SET THE TIME

By using the SCROLL UP and SCROLLDOWN buttons and the ENTER button, the time can easily be set as well as the time zone. Each flashing option will need to be changed to read the appropriate number. Once the appropriate number is displayed, accept the number by pressing ENTER. Then set the next flashing option until the time and time zone are set.

STEP 3: SET THE DATE

Again by using the SCROLL UP and SCROLLDOWN buttons and the ENTER button, the date can easily be set. Each flashing option will need to be changed to read the appropriate number or month. Once the appropriate number is displayed, accept the number by pressing ENTER. Then set the next flashing option until the day, month and year are set.

STEP 4: SET THE LOCATION

The next screen will display:

ALIGN EARTH
CITY 44

CITY will be flashing. By pressing the ENTER button, the display will change to:

C O U
U . S .

The country will be flashing.

Again by using the SCROLL UP and SCROLL DOWN buttons and the ENTER button, the COUNTRY can be chosen. When the appropriate Country is found and the ENTER button is pushed, choose the city that you are closest to by pressing ENTER when it is displayed.

NOTE: CHOOSE THE CITY CLOSEST TO YOUR VIEWING LOCATION. THIS IS NOT A CRITICAL STEP AND THE ALIGNMENT WILL BE REFINED AUTOMATICALLY AS WE PROGRESS.

After four simple criteria that any consumer should know, the telescope now knows where over 20,000 astronomical objects are in the night sky to a relative precision. With just two more steps, you will zero in on pinpoint accuracy.

Now the telescope will lead you through a simple two star alignment process. YOU DO NOT NEED TO KNOW WHERE ANY STARS ARE. You just simply follow the directions.

A scrolling message indicates to CENTER STAR 1 THEN PRESS ENTER

Then the display will read:

CENTER STAR 1.
+120 452 MIZAR

Push the "GO" button and the telescope will automatically move to the general vicinity of the first guide star--in this case MIZAR

The guide stars will be the brightest stars found in that area of the sky. Northstar will automatically "zero out" the guide star and the display will read:

CENTER STAR 1.
OKO OKO MIZAR

Note as you move from greater than 10 degrees away from an object to under ten degrees, the display moves into tenths of degrees with the arrows acting as decimal points (Example 8°5-8.5 degrees below the object).

After getting the star zeroed in, you need to do as the screen told you—CENTER STAR 1. In other words, the star might appear in the lower left corner of your telescope's eyepiece.

By looking through the eyepiece, center the star in the field of view by using the Motorized Movement Buttons or move the telescope by hand and press ENTER.

ALIGNING NORTHSTAR FOR THE FIRST TIME (Continued)

The distance the object is from the center is related to how far outside of a city you might be located or how accurately you aligned with north.

Repeat this process for STAR 2 and press ENTER.

After this step is completed, you will see a display that reads:

ALIGN COMPLETE
RATING 44444

(Note: The more stars that appear on the second line of the display the better, up to 5)

After the two star alignment is complete, your Northstar now knows with pinpoint accuracy where all 20,000+ objects are!!

USING NORTHSTAR FOR THE FIRST TIME

After EARTH ALIGN, the display will then read:

SELECT MODE
EXPLORE 44

Select EXPLORE by pressing ENTER. SCROLL UP and DOWN to see what flashing menu choices you have. Choose PLANET. These are the most interesting. Even if you are a first time telescope user, PLANET objects can be very exciting.

Press ENTER when the display reads:

E X P
P L A

This will take you into a list of named PLANET objects. By using the SCROLL UP or SCROLLDOWN buttons, you can explore several items in the object list.

P L A
JUPITER 44

Press ENTER to choose the PLANET you wish to view. The display will then be:

P L A
4120 4502 JUPITER

NOTE: IF AN OBJECT IS BELOW THE HORIZON, THE DISPLAY WILL PERIODICALLY DISPLAY THE WORD "HORIZON".

SCROLL UP or SCROLL DOWN to see other PLANETS in the list. Notice the display shows you directions to each object. But what if you are a first time user wanting to find out more about the object? Wouldn't it be nice to know what the object is before moving the telescope?

PRESS ENTER when:

P L A
4120 4502 JUPITER

any other PLANET item is displayed. You will see a scrolling message telling you the coordinates for the object, how bright it is, how big it is, what its proper name is, what constellation it is in, and a brief description of what the object is. For JUPITER it reads:

JUPITER fifth planet from sun.
Largest planet in solar system.
16 moons. Orbit is 11.86 years.
Diameter 143,000 km. Named for roman king of Gods.

USING NORTHSTAR FOR THE FIRST TIME (Continued)

Now imagine that you are a parent trying to impress your children (or vice versa). Ten minutes into your first observing session you are already learning astronomical objects.

This is a great educational tool !!!!

To find the object, just press the "GO" button and that object will be right in the telescope's eyepiece!

By pressing the BACK button, you move back to the previous level each time the button is pressed. Press the button three times and you are back at the main level menu. The display will read:

SELECT MODE
EXPLORE ANY

SCROLL UP or SCROLL DOWN to select

SELECT MODE
SKY TOUR ANY.

Press ENTER.

This mode will take you through the best and brightest objects for each month. If you have done the ALIGN EARTH alignment and entered the date, it will automatically take you to the current month. Don't know what some of these obscure objects and abbreviations mean? Just press the ENTER key for more information.

Press the BACK button until you get back to the main menu:

SELECT MODE
SKY TOUR ANY.

SCROLLUP or SCROLL DOWN until the display reads:

SELECT MODE
IDENTIFY ANY

PRESS ENTER

This mode will default to the level

IDENTIFY ANY

By selecting this option with the ENTER key, it will IDENTIFY the object that you are currently viewing OR the closest object to where your telescope is currently pointed. You also have the options to choose other types of IDENTIFY menus. These will IDENTIFY the closest CLUSTERS, NEBULAS, etc. to your current telescope position.

To select the final mode press ENTER at the display:

SELECT MODE
TELESCOPE ANY

The display reads something like:

RA18:53 DEC+38.7
AZ280 ALT+62 LVR

The TELESCOPE mode gives you dynamic real-time information on your telescope's current position in terms of astronomical coordinates. Play around with this mode by moving the telescope around. Notice the three letter abbreviation in the lower right portion of the display. This dynamically displays the current CONSTELLATION that the telescope is pointing at. These names are abbreviated in this mode. Definitions for the abbreviations will be in the catalog index.

Catalog Index

The following appendix information is more thorough information than that listed in the main instruction manual. For sake of space, the complete 20,000 object catalog is not listed. However, we have included the entire star list and the entire Messier object lists for your information. In addition, the constellation abbreviations are defined that are found in the Northstar system.

Catalog Index

CONSTELLATION ABBREVIATIONS

| | |
|------------------------|---------------------------|
| Andromeda (And) | Lacerta (Lac) |
| Antila (Ant) | Leo (Leo) |
| Apus (Aps) | Leo Minor (LMi) |
| Aquarius (Aqr) | Lepus (Lep) |
| Aquila (Aql) | Libra (Lib) |
| Ara (Ara) | Lupus (Lup) |
| Aries (Ari) | Lynx (Lyn) |
| Auriga (Aur) | Lyra (Lyr) |
| Bootes (Boo) | Mensa (Men) |
| Caelum (Cae) | Microscopium (Mic) |
| Camelopardis (Cam) | Monoceros (Mon) |
| Cancer (Cnc) | Musca (Mus) |
| Canes Venatici (CVn) | Norma (Nor) |
| Canis Major (CMa) | Octans (Oct) |
| Canis Minor (CMi) | Ophiuchus (Oph) |
| Capricornus (Cap) | Orion (Ori) |
| Carina (Car) | Pavo (Pav) |
| Cassiopeia (Cas) | Pegasus (Peg) |
| Centaurus (Cen) | Perseus (Per) |
| Cepheus (Cep) | Phoenix (Phe) |
| Cetus (Cet) | Pictor (Pic) |
| Chameleon (Cha) | Pisces (Psc) |
| Circinus (Cir) | Piscis Austrinus (PsA) |
| Columbia (Col) | Puppis (Pup) |
| Coma Berenices (Com) | Pyxis (Pyx) |
| Corona Australis (CrA) | Reticulum (Ret) |
| Corona Borealis (CrB) | Sagitta (Sge) |
| Corvus (Crv) | Sagittarius (Sgr) |
| Crater (Crt) | Scorpius (Sco) |
| Crux (Cru) | Sculptor (Scl) |
| Cygnus (Cyg) | Scutum (Sct) |
| Delphinus (Del) | Serpens (Ser) |
| Dorado (Dor) | Sextans (Sex) |
| Draco (Dra) | Taurus (Tau) |
| Equuleus (Equ) | Telescopium (Tel) |
| Eridanus (Eri) | Triangulum (Tri) |
| Fornax (For) | Triangulum Australe (TrA) |
| Gemini (Gem) | Tucana (Tuc) |
| Grus (Gru) | Ursa Major (UMa) |
| Hercules (Her) | Ursa Minor (UMi) |
| Horologium (Hor) | Vela (Vel) |
| Hydra (Hya) | Virgo (Vir) |
| Hydrus (Hyi) | Volcans (Vol) |
| Indus (Ind) | Vulpecula (Vul) |

Catalog Index

NAME - NAME

RA - RIGHT ASCENSION (hours min.min)

DEC - DECLINATION (degrees)

MAG - MAGNITUDE

SIZE - SIZE

CON - CONSTELLATION

Messier Catalog

| MESSIER CATALOG | | NAME | RA | DEC | MAG | SIZE | CON | DESCRIPTION |
|-----------------|-------------------------------|----------|---------|-------|-----|------|-----|--|
| M001 | Crab nebula supernova remnant | NGC 1952 | 05 34.5 | +22.0 | 8.4 | 6' | Tau | nebula |
| M002 | | NGC 7089 | 21 33.5 | -0.8 | 6 | 7' | Aqr | globular cluster highly resolved |
| M003 | | NGC 5272 | 13 42.2 | +28.4 | 6 | 18' | Cvn | globular cluster highly resolved |
| M004 | | NGC 6121 | 16 23.6 | -26.5 | 5.9 | 26' | Sco | globular cluster highly resolved |
| M005 | | NGC 5904 | 15 18.6 | +02.1 | 6.2 | 13' | Ser | globular cluster highly resolved |
| M006 | butterfly | NGC 6405 | 17 40.1 | -32.2 | 4.6 | 25' | Sco | open cluster rich |
| M007 | | NGC 6475 | 17 53.9 | -34.8 | 5 | 1° | Sco | open cluster bright scattered |
| M008 | Lagoon | NGC 6523 | 18 03.8 | -24.4 | 5 | 80' | Sgr | nebula with dust and cluster |
| M009 | | NGC 6333 | 17 19.2 | -18.5 | 8 | 9' | Oph | globular cluster mottled |
| M010 | | NGC 6254 | 16 57.1 | -4.1 | 7 | 8' | Oph | globular cluster highly resolved |
| M011 | wild duck | NGC 6705 | 18 51.1 | -6.3 | 6 | 12' | Sct | open cluster dense |
| M012 | | NGC 6218 | 16 47.2 | -2 | 8 | 10' | Oph | globular cluster highly resolved |
| M013 | | NGC 6205 | 16 41.7 | +36.5 | 5.7 | 23' | Her | globular cluster highly resolved |
| M014 | | NGC 6402 | 17 37.6 | -3.3 | 9 | 6' | Oph | globular cluster |
| M015 | | NGC 7078 | 21 30.0 | +12.2 | 6.5 | 10' | Peg | globular cluster highly resolved |
| M016 | Eagle | NGC 6611 | 18 18.8 | -13.8 | 6 | 7' | Ser | nebula with dust and cluster |
| M017 | Swan | NGC 6618 | 18 20.8 | -16.2 | 6 | 45' | Sgr | nebula |
| M018 | | NGC 6613 | 18 19.9 | -17.1 | 8 | 7' | Sgr | open cluster bright scattered |
| M019 | | NGC 6273 | 17 02.6 | -26.3 | 7 | 5' | Oph | globular cluster |
| M020 | Trifid | NGC 6514 | 18 02.6 | -23 | 6.3 | 25' | Sgr | nebula with dust |
| M021 | | NGC 6531 | 18 04.6 | -22.5 | 7 | 10' | Sgr | open cluster rich |
| M022 | | NGC 6656 | 18 36.4 | -23.9 | 6 | 18' | Sgr | globular cluster highly resolved |
| M023 | | NGC 6494 | 17 56.8 | -19 | 7 | 30' | Sgr | open cluster dense |
| M024 | small star cloud | | 18 15.9 | -18.5 | 0 | 1.5° | Sgr | open cluster bright scattered |
| M025 | | IC 4725 | 18 31.6 | -19.3 | 6 | 20' | Sgr | scattered group of stars |
| M026 | | NGC 6694 | 18 45.2 | -9.4 | 9.5 | 9' | Sct | open cluster rich |
| M027 | Dumbbell | NGC 6853 | 19 59.6 | +22.7 | 8 | 8' | Vul | planetary nebula irregular |
| M028 | | NGC 6626 | 18 24.5 | -24.9 | 8 | 6' | Sgr | globular cluster highly resolved |
| M029 | | NGC 6913 | 20 23.9 | +38.5 | 7 | 7' | Cyg | open cluster bright scattered |
| M030 | | NGC 7099 | 21 40.4 | -23.2 | 8 | 6' | Cap | globular cluster highly resolved |
| M031 | Great Andromeda Galaxy | NGC 224 | 00 42.7 | +41.3 | 3.4 | 3° | And | very elongated galaxy dusty with bright core |
| M032 | | NGC 221 | 00 42.7 | +40.9 | 8.2 | 8' | And | round galaxy with bright core |
| M033 | Pinwheel | NGC 598 | 01 33.9 | +30.7 | 5.7 | 60' | Tri | spiral galaxy structure with bright knots |
| M034 | | NGC 1039 | 02 42.0 | +42.8 | 5.2 | 30' | Per | open cluster rich |
| M035 | | NGC 2168 | 06 08.9 | +24.3 | 5.1 | 30' | Gem | open cluster rich |
| M036 | | NGC 1960 | 05 36.1 | +34.1 | 6 | 12' | Aur | open cluster rich |
| M037 | | NGC 2099 | 05 52.4 | +32.6 | 5.6 | 24' | Aur | open cluster dense |
| M038 | | NGC 1912 | 05 28.7 | +35.8 | 6.4 | 21' | Aur | open cluster rich |
| M039 | | NGC 7092 | 21 32.2 | +48.4 | 5 | 30' | Cyg | open cluster bright scattered |
| M040 | Winnecke 4 | | 12 19.8 | +58.3 | 9 | 50" | UMa | double star |
| M041 | | NGC 2287 | 06 47.0 | -20.7 | 4.5 | 38' | Cma | open cluster dense |
| M042 | Great Orion nebula | NGC 1976 | 05 35.4 | -5.5 | 4 | 1° | Ori | nebula |
| M043 | | NGC 1982 | 05 35.6 | -5.3 | 9 | 20' | Ori | nebula bright with dust |
| M044 | Bebive | NGC 2632 | 08 40.1 | +20.0 | 3.1 | 1.5° | Cnc | open cluster bright scattered |
| M045 | Pleiades | Pleiades | 03 47.0 | +24.1 | 1.5 | 1.5° | Tau | scattered group of stars |
| M046 | | NGC 2437 | 07 41.8 | -14.8 | 6.1 | 27' | Pup | open cluster dense |
| M047 | | NGC 2422 | 07 36.6 | -14.5 | 4.4 | 30' | Pup | open cluster dense |
| M048 | | NGC 2548 | 08 13.8 | -5.8 | 5.8 | 40' | Hya | open cluster rich |
| M049 | | NGC 4472 | 12 29.8 | +08.0 | 8.4 | 8' | Vir | round galaxy with bright core |
| M050 | | NGC 2323 | 07 03.2 | -8.3 | 6 | 20' | Mon | open cluster rich |
| M051 | Whirlpool | NGC 5194 | 13 29.9 | +47.2 | 8.1 | 11' | Cvn | spiral galaxy structure attached companion |
| M052 | | NGC 7654 | 23 24.2 | +61.6 | 7 | 12' | Cas | open cluster dense |
| M053 | | NGC 5024 | 13 12.9 | +18.2 | 8 | 10' | Com | globular cluster highly resolved |
| M054 | | NGC 6715 | 18 55.1 | -30.5 | 9 | 6' | Sgr | globular cluster mottled |
| M055 | | NGC 6809 | 19 40.0 | -31 | 7 | 15' | Sgr | globular cluster highly resolved |
| M056 | | NGC 6779 | 19 16.6 | +30.2 | 8 | 5' | Lyr | globular cluster highly resolved |
| M057 | Ring | NGC 6720 | 18 53.6 | +33.0 | 9.7 | 80" | Lyr | planetary nebula ring with central star |
| M058 | | NGC 4579 | 12 37.7 | +11.8 | 9.8 | 5' | Vir | round galaxy with bright core |

| | | | | | | | | |
|------|-----------------|----------|---------|-------|------|------|-----|--|
| M059 | | NGC 4621 | 12 42.0 | +11.7 | 9.8 | 2' | Vir | elongated galaxy with bright core |
| M060 | | NGC 4649 | 12 43.7 | +11.6 | 8.8 | 3.5' | Vir | round galaxy with bright core |
| M061 | | NGC 4303 | 12 21.9 | +04.5 | 9.7 | 5' | Vir | spiral galaxy structure |
| M062 | | NGC 6266 | 17 01.2 | -30.1 | 6.5 | 9' | Oph | globular cluster |
| M063 | Sunflower | NGC 5055 | 13 15.8 | +42.0 | 8.6 | 9' | Cvn | elongated galaxy with bright core |
| M064 | Black eye | NGC 4826 | 12 56.7 | +21.7 | 8.6 | 7.5' | Com | elongated galaxy dusty |
| M065 | Leo triplet | NGC 3623 | 11 18.9 | +13.1 | 9.3 | 10' | Leo | very elongated galaxy with bright core |
| M066 | Leo triplet | NGC 3627 | 11 20.2 | +13.0 | 9 | 9' | Leo | spiral galaxy structure |
| M067 | | NGC 2682 | 08 50.4 | +11.8 | 7 | 30' | Cnc | open cluster dense |
| M068 | | NGC 4590 | 12 39.5 | -26.8 | 8 | 9' | Hya | globular cluster highly resolved |
| M069 | | NGC 6637 | 18 31.4 | -32.4 | 7.5 | 4' | Sgr | globular cluster |
| M070 | | NGC 6681 | 18 43.2 | -32.3 | 8 | 4' | Sgr | globular cluster |
| M071 | | NGC 6838 | 19 53.8 | +18.8 | 9 | 6' | Sge | globular cluster highly resolved |
| M072 | | NGC 6981 | 20 53.5 | -12.5 | 8.6 | 3' | Aqr | globular cluster |
| M073 | | NGC 6994 | 20 59.0 | -12.6 | 8.9 | ? | Aqr | asterism |
| M074 | | NGC 628 | 01 36.7 | +15.8 | 9.2 | 10' | Psc | spiral galaxy structure |
| M075 | | NGC 6864 | 20 06.1 | -21.9 | 8 | 3' | Sgr | globular cluster unresolved |
| M076 | little dumbbell | NGC 650 | 01 42.4 | +51.6 | 10.1 | 2' | Per | planetary nebula irregular |
| M077 | | NGC 1068 | 02 42.7 | -0.1 | 8.8 | 7' | Cet | round galaxy with bright core |
| M078 | | NGC 2068 | 05 46.7 | +00.1 | 8 | 8' | Ori | reflection nebula bright |
| M079 | | NGC 1904 | 05 24.5 | -24.6 | 8.4 | 7.5' | Lep | globular cluster highly resolved |
| M080 | | NGC 6093 | 16 17.0 | -23 | 7.2 | 9' | Sco | globular cluster mottled |
| M081 | Bodes nebula | NGC 3031 | 09 55.6 | +69.1 | 6.9 | 26' | Uma | spiral galaxy structure |
| M082 | | NGC 3034 | 09 55.8 | +69.7 | 8.4 | 9' | Uma | very elongated galaxy with dust and bright knots |
| M083 | | NGC 5236 | 13 37.0 | -29.9 | 8 | 10' | Hya | barred spiral galaxy structure |
| M084 | | NGC 4374 | 12 25.1 | +12.9 | 9.3 | 4' | Vir | round galaxy with bright core |
| M085 | | NGC 4382 | 12 25.4 | +18.2 | 9.3 | 5' | Com | round galaxy with bright core |
| M086 | | NGC 4406 | 12 26.2 | +13.0 | 9.2 | 7' | Vir | round galaxy with bright core |
| M087 | | NGC 4486 | 12 30.8 | +12.4 | 8.6 | 7' | Vir | round galaxy with bright core |
| M088 | | NGC 4501 | 12 32.0 | +14.4 | 9.5 | 6' | Com | very elongated galaxy with bright core |
| M089 | | NGC 4552 | 12 35.7 | +12.6 | 9.8 | 3' | Vir | round galaxy with bright core |
| M090 | | NGC 4569 | 12 36.8 | +13.2 | 9.5 | 9' | Vir | very elongated galaxy with bright core |
| M091 | | NGC 4548 | 12 35.4 | +14.5 | 10.2 | 4.5' | Com | elongated galaxy with bright core |
| M092 | | NGC 6341 | 17 17.1 | +43.1 | 6.5 | 8' | Her | globular cluster highly resolved |
| M093 | | NGC 2447 | 07 44.6 | -23.9 | 6.2 | 20' | Pup | open cluster dense |
| M094 | | NGC 4736 | 12 50.9 | +41.1 | 8.2 | 5' | Cvn | elongated galaxy with bright core |
| M095 | | NGC 3351 | 10 44.0 | +11.7 | 9.7 | 4' | Leo | barred spiral galaxy structure |
| M096 | | NGC 3368 | 10 46.8 | +11.8 | 9.3 | 6' | Leo | round galaxy with bright core |
| M097 | Owl | NGC 3587 | 11 14.8 | +55.0 | 11 | 2.5' | Uma | planetary nebula irregular |
| M098 | | NGC 4192 | 12 13.8 | +14.9 | 10 | 8.2' | Com | very elongated galaxy with bright core |
| M099 | | NGC 4254 | 12 18.8 | +14.4 | 10 | 5' | Com | spiral galaxy structure |
| M100 | | NGC 4321 | 12 22.9 | +15.8 | 9.4 | 7' | Com | round galaxy with bright core |
| M101 | | NGC 5457 | 14 03.2 | +54.4 | 7.8 | 20' | Uma | spiral galaxy structure with bright knots |
| M102 | | NGC 5866 | 15 06.5 | +55.8 | 10 | 3' | Dra | very elongated galaxy dusty with bright core |
| M103 | | NGC 581 | 01 33.2 | +60.7 | 7.4 | 6' | Cas | open cluster rich |
| M104 | sombrero | NGC 4594 | 12 40.0 | -11.6 | 8.2 | 7' | Vir | edge on galaxy dusty |
| M105 | | NGC 3379 | 10 47.8 | +12.6 | 9.3 | 4' | Leo | round galaxy with bright core |
| M106 | | NGC 4258 | 12 19.0 | +47.3 | 8.3 | 18' | Cvn | spiral galaxy structure with bright knots |
| M107 | | NGC 6171 | 16 32.5 | -13.1 | 9 | 7' | Oph | globular cluster |
| M108 | | NGC 3556 | 11 11.5 | +55.7 | 10.1 | 8' | Uma | very elongated galaxy with dust and bright knots |
| M109 | | NGC 3992 | 11 57.6 | +53.4 | 9.8 | 8' | Uma | elongated galaxy with bright core |
| M110 | | NGC 205 | 00 40.4 | +41.7 | 8 | 17' | And | elongated galaxy |

Star Catalog

| STAR CATALOG | NAME | RA | DEC | MAG | SIZE | CON | DESCRIPTION |
|---------------------|-----------------|---------|--------|-----|------|-----|-----------------------|
| ST001 O 254 | | 00 01.2 | +60 21 | 7.6 | 59" | Cas | colored double star |
| ST002 30 | 30 PSC | 00 02.0 | -6 | 4.4 | * | Psc | red variable star |
| ST003 3053 | | 00 02.6 | +66 06 | 5.9 | 15" | Cas | colored double star |
| ST004 SU | SU AND | 00 04.6 | +43.5 | 8 | * | And | red variable star |
| ST005 Ced214 | Cederblad 21400 | 04.7 | +67.2 | 7.8 | 30' | Cep | emission nebula |
| ST006 3062 | ADS 61 | 00 06.3 | +58.4 | 6.4 | 1.5" | Cas | double star challenge |
| ST007 Alpheratz | Alpha And | 00 08.4 | +29 05 | 2.1 | * | And | star |
| ST008 2 | Struve 2 | 00 09.3 | +79.7 | 6.6 | 0.8" | Cep | double star challenge |
| ST009 Kappa | B 391 | 00 09.4 | -28 00 | 6.2 | 2" | Scl | double star challenge |
| ST010 Algenib | Gamma PEG | 00 13.2 | +15.2 | 2.8 | * | Peg | star |
| ST011 AD | AD Cet | 00 14.5 | -7.8 | 4.9 | 1.5° | Cet | red variable star |
| ST012 7 | 7 CET | 00 14.6 | -18.9 | 4.4 | * | Cet | red variable star |
| ST013 35 Psc | 12, UU Psc | 00 15.0 | +08 49 | 5.8 | 12" | Psc | colored double star |
| ST014 S | S SCL | 00 15.4 | -32.1 | 5.5 | * | Scl | variable star |
| ST015 13 | Struve 13 | 00 16.2 | +76.9 | 7 | 0.9" | Cep | double star challenge |
| ST016 ST | ST CAS | 00 17.6 | +50.3 | 9 | * | Cas | red variable star |
| ST017 Groombridge34 | Groombridge 34 | 00 18.1 | +44.0 | 8 | 39" | And | And double star |
| ST018 24 | | 00 18.5 | +26 08 | 7.6 | 5" | And | double star |

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|-------|------------|---------------|---------|--------|-----|---------|-----------------------------|--------------------------------|
| ST019 | Iota | Iota CET | 00 19.4 | -8.8 | 3.5 | * | Cet | star |
| ST020 | VX | VX AND | 00 19.9 | +44.7 | 8 | * | And | star |
| ST021 | R | | 00 24.0 | +38 35 | 5.8 | Stellar | And | variable star |
| ST022 | 30 | | 00 27.2 | +49 59 | 6.9 | 15" | Cas | double star |
| ST023 | AQ | AQ AND | 00 27.6 | +35.6 | 6.9 | * | And | red variable star |
| ST024 | Beta | Beta TUC | 00 31.5 | -63 | 4.4 | 27" | Tuc | double star |
| ST025 | 36 | Struve 36 | 00 32.4 | +06.9 | 5.7 | 28" | Psc | double star |
| ST026 | Zeta | Zeta CAS | 00 37.0 | +53.9 | 3.7 | * | Cas | star |
| ST027 | Delta | Delta AND | 00 39.3 | +30.9 | 3.3 | * | And | star |
| ST028 | 55 | | 00 39.9 | +21 26 | 5.4 | 6" | Psc | colored double star |
| ST029 | Schedar | Alpha CAS | 00 40.5 | +56.5 | 2.2 | * | Cas | star |
| ST030 | O | ADS 588 | 00 42.4 | +04.2 | 7.8 | 1.5" | Psc | double star challenge |
| ST031 | HN | HN 122 | 00 45.7 | +75.0 | 5.7 | 36" | Cas | double star |
| ST032 | Delta | Delta PSC | 00 48.7 | +07.6 | 4.4 | * | Psc | star |
| ST033 | Eta | | 00 49.1 | +57 49 | 3.4 | 12" | Cas | colored double star |
| ST034 | 65 | 65 PSC | 00 49.9 | +27.7 | 6.3 | 4.4" | Psc | colored double star |
| ST035 | Do13 | Dolidze 13 | 00 50.0 | +64.1 | 11 | 13' | Cas | scattered group of stars |
| ST036 | Lambda1 | Lambda1 TUC00 | 52.4 | -69.5 | 6.5 | 21" | Tuc | double star |
| ST037 | 36 | 36 AND | 00 55.0 | +23.6 | 6 | 0.8" | And | double star challenge |
| ST038 | Navi | Gamma CAS | 00 56.7 | +60.7 | 2.5 | * | Cas | star |
| ST039 | 80 | | 00 59.4 | +00 47 | 8.4 | 26" | Cet | double star equal magnitude |
| ST040 | 79 | | 01 00.1 | +44 43 | 6 | 8" | And | double star equal magnitude |
| ST041 | U | | 01 02.3 | +81 51 | 6.8 | Stellar | Cep | variable star |
| ST042 | Psi-1 | 88, 74 Psc | 01 05.6 | +21 28 | 5.3 | 30" | Psc | double star equal magnitude |
| ST043 | 77 | 90 | 01 05.8 | +04 55 | 6.8 | 33" | Psc | double star |
| ST044 | Zeta | Zeta PHE | 01 08.4 | -55.3 | 3.9 | 6.4" | Phe | double star |
| ST045 | Eta | Eta CET | 01 08.6 | -10.2 | 3.5 | * | Cet | star |
| ST046 | Lux Lydiae | Lux Lydiae | 01 08.7 | +86.3 | 4.3 | * | Cep | star |
| ST047 | Mirach | Beta AND | 01 09.7 | +35.6 | 2 | * | And | star |
| ST048 | Zeta | Zeta PSC | 01 13.7 | +07.6 | 5.6 | 23" | Psc | double star |
| ST049 | Kappa | Kappa TUC | 01 15.8 | -68.9 | 5.1 | 5.4" | Tuc | double star |
| ST050 | Z | Z PSC | 01 16.2 | +25.8 | 8.8 | * | Psc | star |
| ST051 | 42 | 113 | 01 19.8 | -00 31 | 6.4 | 1.6" | Cet | double star challenge |
| ST052 | Psi | Psi CAS | 01 25.9 | +68.1 | 4.7 | 25" | Cas | double star magnitude contrast |
| ST053 | R | R SCL | 01 27.0 | -32.5 | 6.1 | * | Scl | variable star |
| ST054 | Gamma | Gamma PHE | 01 28.4 | -43.3 | 3.4 | 4' | Phe | star |
| ST055 | Achernar | Alpha Eri | 01 37.7 | -57 14 | 0.5 | * | Eri | star |
| ST056 | 51 | 51 AND | 01 38.0 | +48.6 | 3.6 | * | And | star |
| ST057 | UV | UV CET | 01 38.8 | -18 | 7 | * | Cet | variable star |
| ST058 | p | p ERI | 01 39.8 | -56.2 | 5.8 | 11.5" | Eri | double star |
| ST059 | Nu | Nu PSC | 01 41.4 | +05.5 | 4.4 | * | Psc | star |
| ST060 | 44 | 44 CAS | 01 43.3 | +60.6 | 5.8 | 1.6" | Cas | double star |
| ST061 | Phi | Phi PER | 01 43.7 | +50.7 | 4.1 | * | Per | star |
| ST062 | 162 | 01 49.3 | +47 54 | 5.8 | 2" | Per | triple star challenge | |
| ST063 | 1 | 1 ARI | 01 50.1 | +22.3 | 6 | 2.6" | Ari | double star |
| ST064 | 163 | | 01 51.3 | +64 51 | 6.6 | 35" | Cas | colored double star |
| ST065 | Zeta | Zeta CET | 01 51.5 | -10.3 | 3.7 | 3' | Cet | double star |
| ST066 | 178 | 01 52.0 | +10 48 | 8.5 | 3" | Ari | double star equal magnitude | |
| ST067 | Gamma | Gamma ARI | 01 53.5 | +19.3 | 4.5 | 8" | Ari | double star equal magnitude |
| ST068 | Psi | Psi PHE | 01 53.6 | -46.3 | 4.4 | 5° | Phe | red variable star |
| ST069 | Epsilon | Epsilon CAS | 01 54.4 | +63.7 | 3.4 | * | Cas | star |
| ST070 | 186 | Struve 186 | 01 55.9 | +01.9 | 6.8 | 1" | Cet | double star challenge |
| ST071 | 56 | 56 AND | 01 56.2 | +37.3 | 5.7 | 3' | And | double star |
| ST072 | Lambda | Lambda ARI | 01 57.9 | +23.6 | 4.8 | 37" | Ari | double star |
| ST073 | Upsilon | Upsilon CET | 02 00.0 | -21.1 | 4 | * | Cet | star |
| ST074 | Alpha | Alpha PSC | 02 02.0 | +02.8 | 4 | 1.6" | Psc | double star challenge |
| ST075 | Almach | Gamma AND | 02 03.9 | +42.3 | 2.2 | 10" | And | colored double star |
| ST076 | Hamal | Alpha ARI | 02 07.2 | +23.5 | 2 | * | Ari | star |
| ST077 | 59 And | 02 10.9 | +39 02 | 5.6 | 16" | And | colored double star | |
| ST078 | Iota | Iota TRI | 02 12.4 | +30.3 | 5 | 3.8" | Tri | colored double star |
| ST079 | 231 | Struve 231 | 02 12.8 | -2.4 | 5.7 | 16.5" | Cet | double star |
| ST080 | 228 | Struve 228 | 02 14.0 | +47.5 | 6.6 | 1.1" | And | double star challenge |
| ST081 | 232 | 02 14.7 | +30 24 | 8 | 7" | Tri | double star equal magnitude | |
| ST082 | 239 | 02 17.4 | +28 44 | 7 | 14" | Tri | double star | |
| ST083 | Mira | Omicron CET | 02 19.3 | -3 | 2 | * | Cet | variable star |
| ST084 | Iota | Iota CAS | 02 29.1 | +67.4 | 4 | 2.2" | Cas | triple star |
| ST085 | 268 | | 02 29.4 | +55 31 | 6.9 | 3" | Per | double star |
| ST086 | 274 | | 02 31.5 | +01 05 | 7.3 | 14" | Cet | double star equal magnitude |
| ST087 | Polaris | Alpha UMi | 02 31.8 | +89 16 | 2 | 18" | UMi | double star |
| ST088 | Omega | h 3506 | 02 33.9 | -28 13 | 5 | 11" | For | double star |
| ST089 | 30 | | 02 37.0 | +24 38 | 6.5 | 39" | Ari | colored double star |
| ST090 | R | R TRI | 02 37.0 | +34.3 | 5.4 | * | Tri | variable star |
| ST091 | Gamma | Gamma CET | 02 43.3 | +03.2 | 3.6 | 2.7" | Cet | double star |
| ST092 | 305 | | 02 47.5 | +19 22 | 7.4 | 3" | Ari | double star challenge |
| ST093 | RZ | | 02 48.9 | +69 38 | 6.2 | Stellar | Cas | variable star |

| | | | | | | | | |
|-------|------------|--------------|---------|--------|-----|---------|-----|--------------------------------|
| ST094 | pi | | 02 49.3 | +17 28 | 5.2 | 3" | Ari | triple star |
| ST095 | Eta | 307 | 02 50.7 | +55 53 | 3.9 | 28" | Per | double star magnitude contrast |
| ST096 | R | R HOR | 02 53.9 | -49.9 | 4.7 | * | Hor | variable star |
| ST097 | 330 | Struve 330 | 02 57.2 | -0.6 | 7.3 | 9" | Cet | double star |
| ST098 | Acamar | Theta ERI | 02 58.3 | -40.3 | 3.5 | 8" | Eri | double star |
| ST099 | Epsilon | Epsilon ARI | 02 59.2 | +29.3 | 4.6 | 1.4" | Ari | double star challenge |
| ST100 | Epsilon | | 02 59.2 | +21 20 | 4.6 | 1" | Ari | double star challenge |
| ST101 | 331 | | 03 00.8 | +52 20 | 5.4 | 12" | Per | double star |
| ST102 | Menkar | Alpha CET | 03 02.3 | +04.1 | 2.5 | * | Cet | star |
| ST103 | Rho | Rho PER | 03 05.2 | +38.8 | 3.4 | * | Per | red variable star |
| ST104 | 320 | | 03 06.2 | +79 24 | 5.8 | 5" | Cep | colored double star |
| ST105 | h3568 | h3568 | 03 07.5 | -79 | 5.6 | 15" | Hyi | double star |
| ST106 | Algol | Beta PER | 03 08.2 | +41.0 | 2.2 | * | Per | variable star |
| ST107 | Alpha | Alpha FOR | 03 12.1 | -29 | 4 | 5" | For | double star |
| ST108 | h3556 | h3556 | 03 12.4 | -44.4 | 6 | 3.5" | Eri | double star |
| ST109 | 362 | | 03 16.3 | +60 02 | 8.5 | 7" | Cam | double star equal magnitude |
| ST110 | 369 | | 03 17.2 | +40 29 | 6.7 | 3" | Per | colored double star |
| ST111 | ADS2446 | ADS 2446 | 03 17.7 | +38.6 | 7.8 | 0.9" | Per | double star challenge |
| ST112 | Zeta | Zeta RET | 03 18.2 | -62.5 | 5.2 | 5' | Ret | double star |
| ST113 | Tau4 | Tau4 ERI | 03 19.5 | -21.8 | 3.7 | * | Eri | star |
| ST114 | Toms Topaz | Tom's Topaz | 03 20.3 | +29.0 | 4.5 | 9° | Ari | star |
| ST115 | Mirfak | Alpha Per | 03 24.3 | +49 52 | 1.8 | * | Per | star |
| ST116 | Y | Y PER | 03 27.7 | +44.2 | 8.1 | * | Per | variable star |
| ST117 | 394 | | 03 28.0 | +20 27 | 7.1 | 7" | Ari | double star |
| ST118 | 385 | Struve 385 | 03 29.1 | +59.9 | 4.2 | 2.4" | Cam | double star |
| ST119 | 389 | | 03 30.1 | +59 21 | 6.5 | 2.7" | Cam | double star |
| ST120 | Sigma | Sigma PER | 03 30.6 | +48.0 | 4.4 | * | Per | star |
| ST121 | 401 | | 03 31.3 | +27 34 | 6.4 | 11" | Tau | double star equal magnitude |
| ST122 | Epsilon | Epsilon ERI | 03 32.9 | -9.5 | 3.7 | * | Eri | star |
| ST123 | 400 | Struve 400 | 03 35.0 | +60.0 | 6.8 | 1.4" | Cam | double star |
| ST124 | O 36 | O.Struve 36 | 03 40.0 | +63.9 | 6.8 | 46" | Cam | double star |
| ST125 | U1 | U(1) CAM (?) | 03 41.6 | +62.6 | 8.1 | 0 | Cam | variable star |
| ST126 | Omicron | Omicron PER | 03 44.3 | +32.3 | 3.8 | 0 | Per | star |
| ST127 | Pi | Pi ERI | 03 46.1 | -12.1 | 4.4 | * | Eri | red variable star |
| ST128 | Gamma | Gamma HYI | 03 47.2 | -74.2 | 3.2 | * | Hyi | star |
| ST129 | 30 | 30 TAU | 03 48.3 | +11.2 | 5 | 9" | Tau | double star |
| ST130 | F | 16 | 03 48.6 | -37 37 | 4.9 | 8" | Eri | double star equal magnitude |
| ST131 | BE | BE CAM | 03 49.5 | +65.5 | 4.5 | * | Cam | star |
| ST132 | Atik | Zeta PER | 03 54.1 | +31.9 | 2.9 | * | Per | star |
| ST133 | 32 | 32 ERI | 03 54.3 | -3 | 5 | 7" | Eri | colored double star |
| ST134 | Epsilon | | 03 57.9 | +40 01 | 2.9 | 9" | Per | double star magnitude contrast |
| ST135 | Gamma | Gamma ERI | 03 58.0 | -13.5 | 3 | * | Eri | star |
| ST136 | Lambda | Lambda TAU | 04 00.7 | +12.5 | 3.3 | * | Tau | variable star |
| ST137 | O 531 | ADS 2995 | 04 07.6 | +38.1 | 7.4 | 1.4" | Per | double star challenge |
| ST138 | SZ | 485 | 04 07.8 | +62 20 | 7 | 90" | Cam | double star |
| ST139 | Omicron2 | Omicron2 ERI | 04 15.2 | -7.7 | 4.5 | 83" | Eri | triple star challenge |
| ST140 | Epsilon | Epsilon RET | 04 16.5 | -59.3 | 4.4 | * | Ret | star |
| ST141 | Theta | Theta RET | 04 17.7 | -63.3 | 6.2 | 4" | Ret | double star |
| ST142 | Phi | Phi TAU | 04 20.4 | +27.4 | 5 | 52" | Tau | double star |
| ST143 | T | | 04 22.0 | +19 32 | 8.4 | Stellar | Tau | variable star |
| ST144 | Chi | Chi TAU | 04 22.6 | +25.6 | 5.5 | 19.4" | Tau | double star |
| ST145 | ADS3169 | ADS 3169 | 04 22.7 | +15.1 | 7.3 | 1.4" | Tau | double star challenge |
| ST146 | 43 | 43 ERI | 04 24.0 | -34 | 4 | * | Eri | red variable star |
| ST147 | β 184 | | 04 27.9 | -21 30 | 7.3 | 1.7" | Eri | double star challenge |
| ST148 | 552 | | 04 31.4 | +40 01 | 7 | 9" | Per | double star equal magnitude |
| ST149 | 1 | | 04 32.0 | +53 55 | 5.4 | 10" | Cam | colored double star |
| ST150 | 559 | | 04 33.5 | +18 01 | 6.9 | 3" | Tau | double star equal magnitude |
| ST151 | 46 | 46 ERI | 04 33.9 | -6.7 | 5.7 | 4' | Eri | double star |
| ST152 | Aldebaran | Alpha TAU | 04 35.9 | +16.5 | 0.9 | 30" | Tau | colored double star |
| ST153 | Nu | Nu ERI | 04 36.3 | -3.4 | 3.9 | 11° | Eri | star |
| ST154 | 53 | 53 ERI | 04 38.2 | -14.3 | 3.9 | * | Eri | star |
| ST155 | 572 | | 04 38.5 | +26 56 | 7.3 | 4" | Tau | double star equal magnitude |
| ST156 | 54 | 54 ERI | 04 40.4 | -19.7 | 4.3 | * | Eri | red variable star |
| ST157 | R | R CAE | 04 40.5 | -38.2 | 6.7 | * | Cae | variable star |
| ST158 | 55 | 590 | 04 43.6 | -08 48 | 6.7 | 9" | Eri | double star equal magnitude |
| ST159 | Iota | Iota PIC | 04 50.9 | -53.5 | 5.6 | 12" | Pic | double star |
| ST160 | ST | | 04 51.2 | +68 10 | 9.2 | Stellar | Cam | red variable star |
| ST161 | Pi4 | Pi4 ORI | 04 51.2 | +05.6 | 3.7 | * | Ori | star |
| ST162 | TT | TT TAU | 04 51.6 | +28.5 | 8 | * | Tau | variable star |
| ST163 | Pi5 | Pi5 ORI | 04 54.2 | +02.4 | 3.7 | * | Ori | star |
| ST164 | Omicron2 | Omicron2 ORI | 04 56.4 | +13.5 | 4.1 | * | Ori | star |
| ST165 | Iota | Iota AUR | 04 57.0 | +33.2 | 2.7 | * | Aur | star |
| ST166 | Pi6 | Pi6 ORI | 04 58.5 | +01.7 | 4.5 | * | Ori | star |
| ST167 | Omega | Omega AUR | 04 59.3 | +37.9 | 5 | 5.4" | Aur | double star |

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|-------|--------------------|--------------|---------|--------|------|---------|-----|--------------------------------|
| ST168 | Hinds Crimson Star | R LEP | 04 59.6 | -14.8 | 5.9 | * | Lep | variable star |
| ST169 | 627 | | 05 00.6 | +03 36 | 6.6 | 21" | Ori | double star equal magnitude |
| ST170 | 631 | Struve 631 | 05 00.7 | -13.5 | 7.5 | 5.5" | Lep | double star |
| ST171 | 630 | Struve 630 | 05 02.0 | +01.6 | 6.5 | 15" | Ori | double star |
| ST172 | Epsilon | | 05 02.0 | +43 49 | 2.9 | Stellar | Aur | variable star |
| ST173 | Zeta | Zeta AUR | 05 02.5 | +41.1 | 3.8 | * | Aur | star |
| ST174 | W | W ORI | 05 05.4 | +01.2 | 8.6 | * | Ori | variable star |
| ST175 | Epsilon | Epsilon LEP | 05 05.5 | -22.4 | 3.2 | * | Lep | star |
| ST176 | Eta | Eta AUR | 05 06.5 | +41.2 | 3.2 | * | Aur | star |
| ST177 | 14 | O 98 | 05 07.9 | +08 29 | 5.9 | 0.7" | Ori | double star challenge |
| ST178 | TX | TX AUR | 05 09.1 | +39.0 | 8.5 | * | Aur | variable star |
| ST179 | SY | SY ERI | 05 09.8 | -5.6 | 9 | * | Eri | variable star |
| ST180 | 644 | | 05 10.4 | +37 17 | 6.8 | 2" | Aur | double star challenge |
| ST181 | Iota | Iota LEP | 05 12.3 | -11.9 | 4.5 | 13" | Lep | double star |
| ST182 | Rho | | 05 13.3 | +02 52 | 4.5 | 7" | Ori | colored double star |
| ST183 | Rigel | Beta ORI | 05 14.5 | -8.2 | 0 | 9.4" | Ori | double star magnitude contrast |
| ST184 | 653 | Struve 653 | 05 15.4 | +32.7 | 5.1 | 11" | Aur | triple star |
| ST185 | Capella | Alpha Aur | 05 16.7 | +46 00 | 0.1 | * | Aur | star |
| ST186 | S 476 | | 05 19.3 | -18 30 | 6.2 | 39" | Lep | double star equal magnitude |
| ST187 | h3750 | | 05 20.5 | -21 14 | 4.7 | 4" | Lep | double star magnitude contrast |
| ST188 | UV | UV AUR | 05 21.8 | +32.5 | 7.4 | * | Aur | variable star |
| ST189 | ADS3954 | ADS 3954 | 05 21.8 | -24.8 | 5.5 | 3.2" | Lep | double star |
| ST190 | 696 | Struve 696 | 05 22.8 | +03.6 | 5 | 32" | Ori | double star |
| ST191 | 701 | Struve 701 | 05 23.3 | -8.4 | 6 | 6" | Ori | double star |
| ST192 | Eta | | 05 24.5 | -02 24 | 3.4 | 1.5" | Ori | double star challenge |
| ST193 | Sigma | Sigma AUR | 05 24.7 | +37.4 | 5 | 9" | Aur | double star |
| ST194 | Theta | Theta PIC | 05 24.8 | -52.3 | 6.8 | 38" | Pic | double star |
| ST195 | Bellatrix | Gamma ORI | 05 25.1 | +06.3 | 1.6 | * | Ori | star |
| ST196 | 698 | Struve 698 | 05 25.2 | +34.9 | 6.6 | 31" | Aur | double star |
| ST197 | 118 | 716 | 05 29.3 | +25 09 | 5.8 | 5" | Tau | double star |
| ST198 | 31 | 31 ORI | 05 29.7 | -1.1 | 4.7 | * | Ori | star |
| ST199 | TL9 | TL 9 | 05 30.0 | +17.0 | 5 | 5° | Tau | asterism |
| ST200 | Delta | Delta ORI | 05 32.0 | -0.3 | 2.2 | 53" | Ori | double star |
| ST201 | 119 | 119 TAU | 05 32.2 | +18.6 | 4.7 | * | Tau | star |
| ST202 | 718 | | 05 32.4 | +49 24 | 7.5 | 8" | Aur | double star equal magnitude |
| ST203 | RT | RT ORI | 05 33.2 | +07.2 | 8 | * | Ori | variable star |
| ST204 | 747 | Struve 747 | 05 35.0 | -6 | 4.8 | 36" | Ori | double star |
| ST205 | Lambda | | 05 35.1 | +09 56 | 3.4 | 4" | Ori | double star magnitude contrast |
| ST206 | Trapezium | Trapezium | 05 35.3 | -05 23 | 5.1 | 13" | Ori | quadruple star |
| ST207 | Iota | 752 | 05 35.4 | -05 55 | 2.9 | 11" | Ori | double star magnitude contrast |
| ST208 | Epsilon | Epsilon ORI | 05 36.2 | -1.2 | 1.7 | * | Ori | star |
| ST209 | Phi2 | Phi2 ORI | 05 36.9 | +09.3 | 4 | * | Ori | star |
| ST210 | Zeta | Zeta TAU | 05 37.6 | +21.1 | 3 | * | Tau | star |
| ST211 | Sigma | | 05 38.7 | -02 36 | 3.7 | 11" | Ori | quadruple star |
| ST212 | Alpha | Alpha COL | 05 39.6 | -34.1 | 2.6 | * | Col | star |
| ST213 | Alnitak | Zeta ORI | 05 40.8 | -1.9 | 2 | 2.4" | Ori | double star magnitude contrast |
| ST214 | U2 | U(2) CAM (?) | 05 42.2 | +62.5 | 7.7 | * | Cam | variable star |
| ST215 | Gamma | Gamma LEP | 05 44.5 | -22.5 | 3.7 | 97" | Lep | double star |
| ST216 | Y | Y TAU | 05 45.7 | +20.7 | 7.1 | * | Tau | variable star |
| ST217 | Mu | Mu COL | 05 46.0 | -32.3 | 5.2 | * | Col | star |
| ST218 | Kappa | Kappa ORI | 05 47.8 | -9.7 | 2 | * | Ori | star |
| ST219 | 52 | 795 | 05 48.0 | +06 27 | 6.1 | 1.3" | Ori | double star challenge |
| ST220 | Beta | Beta COL | 05 51.0 | -35.8 | 3.1 | * | Col | star |
| ST221 | Delta | Delta LEP | 05 51.3 | -20.9 | 3.8 | * | Lep | star |
| ST222 | Nu | Nu AUR | 05 51.5 | +39.1 | 4 | 30' | Aur | star |
| ST223 | 817 | | 05 54.9 | +07 02 | 8.8 | 19" | Ori | double star equal magnitude |
| ST224 | Betelgeuse | Alpha Ori | 05 55.2 | +07 24 | 0.5 | Stellar | Ori | star |
| ST225 | U | U ORI | 05 55.8 | +20.2 | 5.3 | * | Ori | variable star |
| ST226 | Theta | | 05 59.7 | +37 13 | 2.6 | 3.5" | Aur | double star magnitude contrast |
| ST227 | Pi | Pi AUR | 05 59.9 | +45.9 | 4.3 | 1° | Aur | red variable star |
| ST228 | 23 | | 06 04.8 | -48 27 | 7 | 2.7" | Pup | double star equal magnitude |
| ST229 | 855 | | 06 09.0 | +02 30 | 6 | 30" | Ori | double star |
| ST230 | TU | TU GEM | 06 10.9 | +26.0 | 7.5 | * | Gem | variable star |
| ST231 | 41 | 845 | 06 11.7 | +48 42 | 6.1 | 8" | Aur | double star |
| ST232 | SS | SS AUR | 06 13.4 | +47.0 | 10 | * | Aur | variable star |
| ST233 | Gamma | Gamma MON | 06 14.9 | -6.3 | 4 | 8° | Mon | star |
| ST234 | Eta | Eta GEM | 06 14.9 | +22.5 | 3.3 | * | Gem | star |
| ST235 | 872 | Struve 872 | 06 15.6 | +36.2 | 6.9 | 11" | Aur | double star |
| ST236 | KS | KS MON | 06 19.7 | -5.3 | 9.5 | * | Mon | variable star |
| ST237 | Zeta | Zeta CMA | 06 20.3 | -30.1 | 3 | 8.5° | Cma | star |
| ST238 | V | V MON | 06 22.7 | -2.2 | 6 | * | Mon | variable star |
| ST239 | Mirzam | Beta CMA | 06 22.7 | -18 | 2 | * | Cma | star |
| ST240 | Mu | Mu GEM | 06 23.0 | +22.5 | 2.9 | * | Gem | star |
| ST241 | 8 | | 06 23.8 | +04 36 | 4.3 | 13" | Mon | colored double star |
| ST242 | Canopus | Alpha Car | 06 24.0 | -52 42 | -0.7 | * | Car | star |

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|-----------------|------------------|---------|--------|------|---------|-------------|--------------------------------|
| ST243 BL | BL ORI | 06 25.5 | +14.7 | 8.5 | * | Ori | variable star |
| ST244 15 | | 06 27.8 | +20 47 | 6.6 | 27" | Gem | double star |
| ST245 Beta | | 06 28.8 | -07 02 | 3.8 | 3" | Mon | triple star |
| ST246 ADS5150 | ADS 5150 | 06 31.8 | +38.9 | 11.5 | 4.5" | Aur | double star |
| ST247 20 | 20 GEM | 06 32.3 | +17.8 | 6.3 | 20" | Gem | colored double star |
| ST248 ADS5188 | ADS 5188 | 06 34.3 | +38.1 | 6.7 | 43" | Aur | double star |
| ST249 CR | CR GEM | 06 34.4 | +16.1 | 8.5 | * | Gem | variable star |
| ST250 928 | ADS 5191 | 06 34.7 | +38.4 | 7.6 | 3.5" | Aur | double star |
| ST251 ADS5201 | ADS 5201 | 06 35.1 | +37.1 | 7.4 | 2.6" | Aur | double star |
| ST252 929 | ADS 5208 | 06 35.4 | +37.7 | 7.4 | 6" | Aur | double star |
| ST253 939 | Struve 939 | 06 35.9 | +05.3 | 8.3 | 30" | Mon | double star |
| ST254 ADS5221 | ADS 5221 | 06 36.2 | +38.0 | 8.5 | 1.3" | Aur | double star challenge |
| ST255 Nu1 | Nu1 CMA | 06 36.4 | -18.7 | 6 | 17.5" | Cma | colored double star |
| ST256 UU | UU AUR | 06 36.5 | +38.5 | 5.1 | * | Aur | variable star |
| ST257 ADS5240 | ADS 5240 | 06 36.9 | +38.2 | 9.7 | 2.2" | Aur | double star |
| ST258 ADS5245 | ADS 5245 | 06 37.3 | +38.4 | 8.8 | 10" | Aur | double star |
| ST259 South529 | South 529 | 06 37.6 | +12.2 | 7.6 | 70" | Gem | double star |
| ST260 Inness5 | Innes 5 | 06 38.0 | -61.5 | 6.4 | 2.4" | Pic | double star |
| ST261 ADS5265 | ADS 5265 | 06 38.4 | +38.8 | 9.6 | 4.6" | Aur | double star |
| ST262 Innes1156 | Innes 1156 | 06 39.1 | -29.1 | 8 | 0.7" | Cma | double star challenge |
| ST263 SAO172106 | SAO 172106 | 06 39.5 | -30 | 7.8 | 2.5° | Cma | red variable star |
| ST264 953 | | 06 41.2 | +08 59 | 7.1 | 7" | Mon | double star |
| ST265 VW | VW GEM | 06 42.2 | +31.5 | 8.7 | * | Gem | variable star |
| ST266 Sirius | Alpha CMA | 06 45.1 | -16.7 | -1 | 9" | Cma | double star magnitude contrast |
| ST267 12 | 948 | 06 46.2 | +59 27 | 4.9 | 2" | Lyn | triple star challenge |
| ST268 958 | | 06 48.2 | +55 42 | 5.5 | 5" | Lyn | double star equal magnitude |
| ST269 Kappa | Kappa CMA | 06 49.8 | -32.5 | 4 | * | Cma | star |
| ST270 14 | 14 LYN | 06 53.1 | +59.5 | 5.7 | 0.4" | Lyn | double star challenge |
| ST271 GY | GY MON | 06 53.2 | -4.6 | 9.4 | * | Mon | variable star |
| ST272 987 | | 06 54.1 | -05 51 | 7.1 | 1.3" | Mon | double star challenge |
| ST273 Omicron1 | Omicron1 CMA | 06 54.1 | -24.2 | 3.9 | * | Cmstar | |
| ST274 Theta | Theta CMA | 06 54.2 | -12 | 4.1 | * | Cma | star |
| ST275 38 | | 06 54.6 | +13 11 | 4.7 | 7" | Gem | colored double star |
| ST276 Mu | 997 | 06 56.1 | -14 02 | 5.3 | 2.8" | Cma | double star magnitude contrast |
| ST277 BG | BG MON | 06 56.4 | +07.1 | 9.2 | * | Mon | variable star |
| ST278 O 80 | O. Struve (P) 80 | 06 58.1 | +14.2 | 7.3 | 2' | Gemasterism | |
| ST279 RV | RV MON | 06 58.4 | +06.2 | 7 | * | Mon | variable star |
| ST280 Epsilon | Epsilon CMA | 06 58.6 | -29 | 1.5 | 7.5" | Cma | double star |
| ST281 Sigma | Sigma CMA | 07 01.7 | -27.9 | 3.5 | * | Cma | star |
| ST282 Omicron2 | Omicron2 CMA | 07 03.0 | -23.8 | 3 | * | Cmstar | |
| ST283 Dunlop38 | Dunlop 38 | 07 04.0 | -43.6 | 5.6 | 20.5" | Pup | double star |
| ST284 Zeta | Zeta GEM | 07 04.1 | +20.6 | 3.7 | * | Gem | variable star |
| ST285 1009 | | 07 05.7 | +52 45 | 6.9 | 4.1" | Lyn | double star equal magnitude |
| ST286 R | R GEM | 07 07.4 | +22.7 | 6 | * | Gem | variable star |
| ST287 W | | 07 08.1 | -11 55 | 6.4 | Stellar | CMa | red variable star |
| ST288 Gamma | Gamma VOL | 07 08.8 | -70.5 | 4 | 13.6" | Vol | double star |
| ST289 Tau | Tau GEM | 07 11.1 | +30.2 | 4.4 | 1.9" | Gem | double star |
| ST290 1035 | | 07 12.0 | +22 17 | 8.2 | 4" | Gem | double star equal magnitude |
| ST291 1037 | Struve 1037 | 07 12.8 | +27.2 | 7.2 | 1.3" | Gem | double star challenge |
| ST292 Omega | Omega CMA | 07 14.8 | -26.8 | 3.9 | * | Cma | star |
| ST293 h3945 | | 07 16.6 | -23 19 | 4.5 | 27" | CMA | colored double star |
| ST294 Tau | h 3948 | 07 18.7 | -24 57 | 4.4 | 15" | CMa | triple star |
| ST295 Delta | 55 Gem | 07 20.1 | +21 59 | 3.5 | 6" | Gem | double star magnitude contrast |
| ST296 19 | 1062 | 07 22.9 | +55 17 | 5.6 | 15" | Lyn | triple star |
| ST297 Gamma | Gamma CMi | 07 28.2 | +08.9 | 4.3 | * | Cmi | star |
| ST298 Sigma | Sigma PUP | 07 29.2 | -43.3 | 3.3 | 22" | Pup | double star |
| ST299 1093 | Struve 1093 | 07 30.3 | +50.0 | 8.8 | 0.8" | Lyn | double star challenge |
| ST300 n | HN19, h269 | 07 34.3 | -23 28 | 5.1 | 10" | Pup | double star equal magnitude |
| ST301 Castor | Alpha GEM | 07 34.6 | +31.9 | 2 | 1.8" | Gem | double star challenge |
| ST302 Upsilon | Upsilon GEM | 07 35.9 | +26.9 | 4.1 | 2.5° | Gem | red variable star |
| ST303 1121 | | 07 36.6 | -14 29 | 7.9 | 7" | Pup | double star equal magnitude |
| ST304 K | | 07 38.8 | -26 48 | 3.8 | 10" | Pup | double star equal magnitude |
| ST305 Procyon | Alpha CMi | 07 39.3 | +05 14 | 0.4 | Stellar | CMi | star |
| ST306 Kappa | O 179 | 07 44.4 | +24 23 | 3.7 | 7" | Gem | double star magnitude contrast |
| ST307 2 | 1138 | 07 45.5 | -14 41 | 6.1 | 17" | Pup | double star equal magnitude |
| ST308 1127 | | 07 47.0 | +64 03 | 7 | 5" | Cam | triple star |
| ST309 1149 | | 07 49.4 | +03 13 | 7.9 | 22" | Cmi | double star |
| ST310 U | | 07 55.1 | +22 00 | 8.2 | Stellar | Gem | variable star |
| ST311 Chi | Chi CAR | 07 56.8 | -53 | 3.5 | 4° | Car | star |
| ST312 Dunlop59 | Dunlop 59 | 07 59.2 | -50 | 6.5 | 16" | Pup | double star |
| ST313 S-h86 | S-h 86 | 08 02.5 | +63.1 | 6 | 49" | Cam | double star |
| ST314 Zeta | Zeta PUP | 08 03.6 | -40 | 2.3 | 4° | Pup | star |
| ST315 RT | RT PUP | 08 05.4 | -38.8 | 8.5 | * | Pup | variable star |
| ST316 RU | RU PUP | 08 07.5 | -22.9 | 8.9 | * | Pup | variable star |

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|-------|----------|-------------|---------|--------|-----|---------|-----|--------------------------------|
| ST317 | Epsilon | Epsilon VOL | 08 07.9 | -68.6 | 4.4 | 6" | Vol | double star |
| ST318 | Gamma | Gamma VEL | 08 09.5 | -47.3 | 1.9 | 41" | Vel | double star |
| ST319 | Zeta | | 08 12.2 | +17 39 | 4.7 | 0.6" | Cnc | triple star challenge |
| ST320 | c | c CAR | 08 15.3 | -62.9 | 5.3 | 4" | Car | double star |
| ST321 | Beta | Beta CNC | 08 16.5 | +09.2 | 3.5 | * | Cnc | star |
| ST322 | R | R CNC | 08 16.6 | +11.7 | 6.1 | * | Cnc | variable star |
| ST323 | Kappa | Kappa VOL | 08 19.8 | -71.5 | 5.4 | 65" | Vol | double star |
| ST324 | AC | AC PUP | 08 22.7 | -15.9 | 8.9 | * | Pup | variable star |
| ST325 | 31 | 31 LYN | 08 22.8 | +43.2 | 4.3 | 15° | Lyn | star |
| ST326 | Beta | Beta VOL | 08 25.7 | -66.1 | 3.8 | 6° | Vol | star |
| ST327 | h4903 | h4903 | 08 26.3 | -39.1 | 6.5 | 8" | Pup | double star |
| ST328 | 24 | 1224 | 08 26.7 | +24 32 | 7.1 | 6" | Cnc | double star |
| ST329 | Phi | 1223 | 08 26.7 | +26 56 | 6.3 | 5" | Cnc | double star equal magnitude |
| ST330 | h4104 | h4104 | 08 29.1 | -47.9 | 5.5 | 3.6" | Vel | double star |
| ST331 | 70 | | 08 29.5 | -44 44 | 5 | 5" | Vel | double star |
| ST332 | h4107 | | 08 31.4 | -39 04 | 6.4 | 4" | Vel | triple star |
| ST333 | 1245 | | 08 35.8 | +06 37 | 6 | 10" | Cnc | double star |
| ST334 | Sigma | Sigma HYA | 08 38.8 | +03.3 | 4.4 | * | Hya | star |
| ST335 | h4128 | h4128 | 08 39.2 | -60.3 | 6.9 | 1.4" | Car | double star challenge |
| ST336 | 1254 | | 08 40.4 | +19 40 | 6.4 | 21" | Cnc | quadruple star |
| ST337 | Alpha | Alpha PYX | 08 43.6 | -33.2 | 3.7 | * | Pyx | star |
| ST338 | Delta | Delta VEL | 08 44.7 | -54.7 | 2.1 | 2.6" | Vel | double star |
| ST339 | 1270 | ADS 6977 | 08 45.3 | -2.6 | 6.4 | 5" | Hya | double star |
| ST340 | Iota | 1268 | 08 46.7 | +28 46 | 4 | 30" | Cnc | colored double star |
| ST341 | Epsilon | | 08 46.8 | +06 25 | 3.4 | 3" | Hyd | double star magnitude contrast |
| ST342 | 1282 | | 08 50.8 | +35 03 | 7.5 | 4" | Lyn | double star equal magnitude |
| ST343 | X | X CNC | 08 55.4 | +17.2 | 5.6 | * | Cnc | variable star |
| ST344 | 66 | 1298 | 09 01.4 | +32 15 | 5.9 | 5" | Cnc | double star |
| ST345 | Rho | Rho UMA | 09 02.5 | +67.6 | 4.8 | 1° | Uma | star |
| ST346 | 1311 | | 09 07.5 | +22 59 | 6.9 | 8" | Cnc | double star equal magnitude |
| ST347 | Suhail | Lambda Vel | 09 08.0 | -43 26 | 2.2 | Stellar | Vel | star |
| ST348 | Sigma2 | | 09 10.4 | +67 08 | 4.8 | 4" | Uma | double star magnitude contrast |
| ST349 | a | a CAR | 09 11.0 | -59 | 3.4 | 50' | Car | star |
| ST350 | h4188 | h4188 | 09 12.5 | -43.6 | 6.7 | 2.7" | Vel | double star |
| ST351 | h4191 | | 09 14.4 | -43 13 | 5.2 | 6" | Vel | double star magnitude contrast |
| ST352 | 1321 | | 09 14.9 | +52 42 | 8.1 | 18" | Uma | double star equal magnitude |
| ST353 | g | g CAR | 09 16.2 | -57.5 | 4.3 | 5' | Car | star |
| ST354 | RT | RT UMA | 09 18.4 | +51.4 | 8.6 | * | Uma | variable star |
| ST355 | 38 | 1334 | 09 18.8 | +36 48 | 3.9 | 3" | Lyn | double star challenge |
| ST356 | 1338 | | 09 21.0 | +38 11 | 6.6 | 1" | Lyn | double star challenge |
| ST357 | Alpha | Alpha LYN | 09 21.1 | +34.4 | 3.1 | * | Lyn | star |
| ST358 | Kappa | Kappa VEL | 09 22.1 | -55 | 2.5 | * | Vel | star |
| ST359 | 1347 | | 09 23.3 | +03 30 | 7.2 | 21" | Hya | double star |
| ST360 | Kappa | Kappa LEO | 09 24.7 | +26.2 | 4.5 | 2.1" | Leo | triple star |
| ST361 | 1355 | | 09 27.3 | +06 14 | 7.5 | 2.3" | Hya | double star equal magnitude |
| ST362 | Alphard | Alpha Hya | 09 27.6 | -08 40 | 2 | Stellar | Hya | star |
| ST363 | Omega | Omega LEO | 09 28.5 | +09.1 | 5.9 | 0.5" | Leo | double star challenge |
| ST364 | Dunlop76 | Dunlop 76 | 09 28.6 | -45.5 | 7.8 | 61" | Vel | double star |
| ST365 | 1360 | | 09 30.6 | +10 35 | 8.3 | 14" | Leo | double star equal magnitude |
| ST366 | Zeta | | 09 30.8 | -31 53 | 5.8 | 8" | Ant | double star |
| ST367 | N | N VEL | 09 31.2 | -57 | 3.1 | * | Vel | star |
| ST368 | 23 | 1351 | 09 31.5 | +63 03 | 3.8 | 23" | Uma | double star magnitude contrast |
| ST369 | Lambda | Lambda LEO | 09 31.7 | +23.0 | 4.3 | * | Leo | star |
| ST370 | R | R CAR | 09 32.2 | -62.8 | 3.8 | * | Car | variable star |
| ST371 | 1369 | Struve 1369 | 09 35.4 | +40.0 | 6.5 | 25" | Lyn | double star |
| ST372 | Iota | Iota HYA | 09 39.9 | -1.1 | 3.9 | * | Hya | star |
| ST373 | Upsilon | Upsilon CAR | 09 47.1 | -65.1 | 3.1 | 5" | Car | double star |
| ST374 | R | | 09 47.6 | +11 26 | 4.4 | Stellar | Leo | red variable star |
| ST375 | W | W SEX | 09 51.0 | -2 | 9 | * | Sex | variable star |
| ST376 | Y | Y HYA | 09 51.1 | -23 | 8.3 | * | Hya | variable star |
| ST377 | Mu | Mu LEO | 09 52.8 | +26.0 | 3.9 | * | Leo | star |
| ST378 | h4262 | ADS 7571 | 09 54.5 | -12.9 | 8.7 | 8" | Hya | double star |
| ST379 | Regulus | Alpha Leo | 10 08.4 | +11 58 | 1.4 | Stellar | Leo | star |
| ST380 | S | S CAR | 10 09.4 | -61.6 | 4.5 | * | Car | variable star |
| ST381 | ADS7704 | ADS 7704 | 10 16.3 | +17.7 | 7.2 | 1.4" | Leo | double star challenge |
| ST382 | Zeta | Zeta LEO | 10 16.7 | +23.4 | 3.4 | 5.5' | Leo | double star |
| ST383 | q | q CAR | 10 17.1 | -61.3 | 3.4 | * | Car | star |
| ST384 | h4306 | h4306 | 10 19.1 | -64.7 | 5.6 | 2.1" | Car | double star |
| ST385 | Algieba | Gamma LEO | 10 20.0 | +19.8 | 2.5 | 4.4" | Leo | double star |
| ST386 | Mu | Mu UMA | 10 22.3 | +41.5 | 3 | * | Uma | star |
| ST387 | Mu | Mu HYA | 10 26.1 | -16.8 | 3.8 | * | Hya | star |
| ST388 | Alpha | Alpha ANT | 10 27.2 | -31.1 | 4.3 | * | Ant | star |
| ST389 | 45 | 45 LEO | 10 27.6 | +09.8 | 6 | 3.8" | Leo | double star |
| ST390 | Delta | HN 50 | 10 29.6 | -30 36 | 5.7 | 11" | Ant | double star magnitude contrast |
| ST391 | p | p CAR | 10 32.0 | -61.7 | 3.3 | * | Car | star |

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|-------|------------|--------------|---------|---------|--------|---------|------|--------------------------------|--------------------------------|
| ST392 | Rho | Rho LEO | 10 32.8 | +09.3 | 3.9 | * | Leo | star | |
| ST393 | 49 | | 10 35.0 | +08 39 | 5.7 | 2" | Leo | double star challenge | |
| ST394 | U | U ANT | 10 35.2 | -39.6 | 8.1 | * | Ant | variable star | |
| ST395 | Gamma | Gamma CHA | 10 35.5 | -78.6 | 4.1 | * | Cha | star | |
| ST396 | U | U HYA | 10 37.6 | -13.4 | 7 | * | Hya | variable star | |
| ST397 | Dunlop95 | Dunlop 95 | 10 39.3 | -55.6 | 4.3 | 52" | Vel | double star | |
| ST398 | 35 | | 1466 | 10 43.4 | +04 44 | 6.3 | 7" | Sex | double star |
| ST399 | R | R UMA | 10 44.6 | +68.8 | 7.5 | * | Uma | variable star | |
| ST400 | VY | VY UMA | 10 45.1 | +67.4 | 5.9 | * | Uma | variable star | |
| ST401 | Delta | Delta CHA | 10 45.8 | -80.5 | 4.5 | 4.5' | Cha | double star | |
| ST402 | 40 | | 1476 | 10 49.3 | -04 01 | 6.9 | 2.5" | Sex | double star |
| ST403 | Nu | Nu HYA | 10 49.6 | -16.2 | 3.1 | * | Hya | star | |
| ST404 | 54 | 54 LEO | 10 55.6 | +24.8 | 4.5 | 6.8" | Leo | double star | |
| ST405 | SAO251342 | SAO 251342 | 11 17.5 | -63.5 | 7 | 7" | Car | double star magnitude contrast | |
| ST406 | Xi | Xi UMA | 11 18.2 | +31.5 | 4.5 | 1.3" | Uma | double star challenge | |
| ST407 | Nu | Nu UMA | 11 18.5 | +33.1 | 3.5 | 7" | Uma | double star | |
| ST408 | 1529 | | 11 19.4 | -01 38 | 7 | 10" | Leo | double star | |
| ST409 | h4432 | h4432 | 11 23.4 | -65 | 5.1 | 2.3" | Mus | double star | |
| ST410 | Iota | Iota LEO | 11 23.9 | +10.5 | 4 | 1.3" | Leo | double star challenge | |
| ST411 | 83 | | 1540 | 11 26.8 | +03 00 | 6.2 | 29" | Leo | triple star |
| ST412 | Tau | Tau LEO | 11 27.9 | +02.9 | 5.5 | 1.5' | Leo | double star | |
| ST413 | Lambda | Lambda DRA | 11 31.4 | +69.3 | 3.8 | 20' | Dra | red variable star | |
| ST414 | 88 | | 1547 | 11 31.8 | +14 21 | 6.4 | 16" | Leo | double star |
| ST415 | N | | | 11 32.3 | -29 16 | 5.8 | 9" | Hyd | double star equal magnitude |
| ST416 | Innes78 | Innes 78 | 11 33.6 | -40.6 | 6 | 1" | Cen | double star challenge | |
| ST417 | 1552 | | 1552 | 11 34.7 | +16 48 | 6 | 3" | Leo | triple star |
| ST418 | Nu | Nu VIR | 11 45.9 | +06.5 | 4 | * | Vir | star | |
| ST419 | Denebola | Beta Leo | 11 49.1 | +14 34 | 2.1 | Stellar | Leo | star | |
| ST420 | Beta | Beta HYA | 11 52.9 | -33.9 | 4.7 | 0.9" | Hya | colored double star | |
| ST421 | O | O.Struve 112 | 11 54.6 | +19.4 | 8.4 | 73" | Leo | double star | |
| ST422 | 65 | | 1579 | 11 55.1 | +46 29 | 6.7 | 4" | Uma | double star |
| ST423 | Epsilon | Epsilon CHA | 11 59.6 | -78.2 | 5.4 | 0.9" | Cha | colored double star | |
| ST424 | 1593 | | 12 03.5 | -02 26 | 8.7 | 1.3" | Vir | double star challenge | |
| ST425 | Zeta | Zeta COM | 12 04.3 | +21.5 | 6 | 3.6" | Com | double star | |
| ST426 | Delta | Delta CEN | 12 08.4 | -50.7 | 2.6 | 4.5' | Cen | double star | |
| ST427 | 1604 | | 12 09.5 | -11 51 | 6.6 | 10" | Crv | triple star | |
| ST428 | Epsilon | Epsilon CRV | 12 10.1 | -22.6 | 3 | * | Crv | star | |
| ST429 | Rumker14 | Rumker 14 | 12 14.0 | -45.7 | 5.6 | 2.9" | Cen | double star | |
| ST430 | Delta | Delta CRU | 12 15.1 | -58.7 | 2.8 | * | Cru | star | |
| ST431 | 2 | 2 CVN | 12 16.1 | +40.7 | 6 | 11.5" | Cvn | colored double star | |
| ST432 | Epsilon | Epsilon MUS | 12 17.6 | -68 | 4.1 | * | Mus | red variable star | |
| ST433 | 1627 | | 12 18.1 | -03 56 | 6.6 | 20" | Vir | double star equal magnitude | |
| ST434 | R | R CRV | 12 19.6 | -19.3 | 6.7 | * | Crv | variable star | |
| ST435 | 1633 | | 12 20.6 | +27 03 | 6.3 | 9" | Com | double star equal magnitude | |
| ST436 | Epsilon | Epsilon CRU | 12 21.4 | -60.4 | 3.6 | * | Cru | star | |
| ST437 | M40 | Winnecke 4 | 12 22.4 | +58 05 | 9 | 50" | UMa | double star | |
| ST438 | 17 | | 17 VIR | 12 22.5 | +05.3 | 6.5 | 21" | Vir | double star |
| ST439 | 1639 | Struve 1639 | 12 24.4 | +25.6 | 6.8 | 1.6" | Com | double star challenge | |
| ST440 | S | S CEN | 12 24.6 | -49.4 | 9.2 | * | Cen | variable star | |
| ST441 | SS | | 12 25.3 | +00 48 | 6 | Stellar | Vir | red variable star | |
| ST442 | Acrux | Alpha CRU | 12 26.6 | -63.1 | 1 | 4.4" | Cru | double star | |
| ST443 | 3C273 | 3C 273 | 12 29.1 | +02.0 | 12.8 | * | Vir | asterism | |
| ST444 | Algorab | Delta CRV | 12 29.9 | -16.5 | 3 | 24" | Crv | double star | |
| ST445 | Gamma | Gamma CRU | 12 31.2 | -57.1 | 1.6 | 110" | Cru | double star | |
| ST446 | 1649 | Struve 1649 | 12 31.6 | -11.1 | 8 | 15" | Vir | double star | |
| ST447 | 24 | | 12 35.1 | +18 23 | 5 | 20" | CVn | colored double star | |
| ST448 | Alpha | Alpha MUS | 12 37.2 | -69.1 | 2.7 | * | Mus | star | |
| ST449 | ADS8612 | ADS 8612 | 12 37.7 | -27.1 | 5.5 | 1.3" | Hya | double star challenge | |
| ST450 | 1669 | | 12 41.3 | -13 01 | 5.3 | 5" | Crv | double star equal magnitude | |
| ST451 | Gamma | Gamma CEN | 12 41.5 | -49 | 2.2 | 1" | Cen | double star challenge | |
| ST452 | Porrima | Gamma VIR | 12 41.7 | -1.4 | 3.5 | 3" | Vir | double star | |
| ST453 | Y | | 12 45.1 | +45 26 | 7.4 | Stellar | CVn | red variable star | |
| ST454 | Iota | Iota CRU | 12 45.6 | -61 | 4.7 | 27" | Cru | double star | |
| ST455 | Beta | Beta MUS | 12 46.3 | -68.1 | 3.7 | 1.4" | Mus | double star challenge | |
| ST456 | Mimosa | Beta CRU | 12 47.7 | -59.7 | 1.3 | * | Cru | star | |
| ST457 | 32 | | 1694 | 12 49.2 | +83 25 | 5.3 | 22" | Cam | double star equal magnitude |
| ST458 | 35 | | 1687 | 12 53.3 | +21 14 | 5.1 | 29" | Com | double star magnitude contrast |
| ST459 | Mu | Mu CRU | 12 54.6 | -57.2 | 4.3 | 35" | Cru | double star | |
| ST460 | Delta | Delta VIR | 12 55.6 | +03.4 | 3.4 | * | Vir | red variable star | |
| ST461 | Cor Caroli | Alpha CVN | 12 56.0 | +38.3 | 3 | 19" | CVn | double star | |
| ST462 | RY | RY DRA | 12 56.4 | +66.0 | 6.8 | * | Dra | variable star | |
| ST463 | 1699 | | 12 58.7 | +27 28 | 8.8 | 1.5" | Com | double star challenge | |
| ST464 | Delta | Delta MUS | 13 02.3 | -71.5 | 3.6 | 8' | Mus | star | |
| ST465 | Theta | Theta MUS | 13 08.1 | -65.3 | 5.7 | 5.3" | Mus | double star | |

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|-------|---------------|-----------------|------|---------|--------|------|---------|-----|--------------------------------|
| ST466 | Theta | 51 Vir, | 1724 | 13 09.9 | -05 32 | 4.4 | 7" | Vir | triple star challenge |
| ST467 | Alpha | | | 13 10.0 | +17 32 | 5 | 0.5" | Com | double star challenge |
| ST468 | 54 | | | 13 13.4 | -18 50 | 6.8 | 5" | Vir | double star |
| ST469 | J | J CEN | | 13 22.6 | -61 | 4.7 | 1' | Cen | double star |
| ST470 | Zeta | Mizar | | 13 23.9 | +54 56 | 2.3 | 14" | Uma | double star |
| ST471 | Spica | Alpha VIR | | 13 25.2 | -11.2 | 1 | * | Vir | star |
| ST472 | O | 123 | | 13 27.1 | +64 43 | 6.7 | 69" | Dra | colored double star |
| ST473 | R | | | 13 29.7 | -23 17 | 4 | Stellar | Hyd | variable star |
| ST474 | 1755 | Struve 1755 | | 13 32.3 | +36.8 | 7 | 4.4" | Cvn | double star |
| ST475 | S | S VIR | | 13 33.0 | -7.2 | 6 | * | Vir | variable star |
| ST476 | 25 | 25 CVN | | 13 37.5 | +36.3 | 5 | 1.8" | Cvn | double star magnitude contrast |
| ST477 | 1763 | Struve 1763 | | 13 37.6 | -7.9 | 7.9 | 2.8" | Vir | double star |
| ST478 | Epsilon | Epsilon CEN | | 13 39.9 | -53.5 | 2.3 | * | Cen | star |
| ST479 | 1 | 1772 | | 13 40.7 | +19 57 | 5.7 | 5" | Boo | double star magnitude contrast |
| ST480 | Dunlop141 | Dunlop 141 | | 13 41.7 | -54.6 | 5.3 | 5.3" | Cen | double star |
| ST481 | T | T CEN | | 13 41.8 | -33.6 | 5.5 | * | Cen | variable star |
| ST482 | Alkaid | Eta UMA | | 13 47.5 | +49.3 | 1.9 | * | Uma | star |
| ST483 | 1785 | Struve 1785 | | 13 49.1 | +27.0 | 7.6 | 3.4" | Boo | double star |
| ST484 | 2 | 2 CEN | | 13 49.4 | -34.5 | 4.2 | * | Cen | star |
| ST485 | Upsilon | Upsilon BOO | | 13 49.5 | +15.8 | 4.1 | * | Boo | star |
| ST486 | 3 | 3 CEN | | 13 51.8 | -33 | 4.5 | 8" | Cen | double star |
| ST487 | Zeta | Zeta CEN | | 13 55.5 | -47.3 | 2.6 | 5° | Cen | star |
| ST488 | Beta | Beta CEN | | 14 03.8 | -60.4 | 0.6 | * | Cen | star |
| ST489 | Pi | Pi HYA | | 14 06.4 | -26.7 | 3.3 | * | Hya | star |
| ST490 | Kappa | Kappa VIR | | 14 12.9 | -10.3 | 4.2 | * | Vir | star |
| ST491 | Kappa | | | 14 13.5 | +51 47 | 4.4 | 13" | Boo | colored double star |
| ST492 | 1819 | | | 14 15.3 | +03 08 | 7.8 | 0.8" | Vir | double star challenge |
| ST493 | Arcturus | Alpha Boo | | 14 15.7 | +19 11 | 0 | Stellar | Boo | star |
| ST494 | Iota | Iota BOO | | 14 16.2 | +51.4 | 4.9 | 39" | Boo | double star |
| ST495 | R | R CEN | | 14 16.6 | -59.9 | 5.3 | * | Cen | variable star |
| ST496 | 1834 | Struve 1834 | | 14 20.3 | +48.5 | 8.1 | 1.3" | Boo | double star challenge |
| ST497 | 1833 | | | 14 22.6 | -07 46 | 7.6 | 6" | Vir | double star equal magnitude |
| ST498 | Dunlop159 | Dunlop 159 | | 14 22.6 | -58.5 | 5 | 9" | Cen | colored double star |
| ST499 | 1835 | | | 14 23.4 | +08 26 | 5.1 | 6" | Boo | double star |
| ST500 | SHJ 179 | | | 14 25.5 | -19 58 | 6.4 | 35" | Lib | double star |
| ST501 | 5 | 5 UMI | | 14 27.5 | +75.7 | 4.3 | * | Umi | star |
| ST502 | Proxima | Proxima CEN | | 14 29.9 | -62.7 | 10.7 | * | Cen | variable star |
| ST503 | Rho | Rho BOO | | 14 31.8 | +30.4 | 3.6 | * | Boo | star |
| ST504 | h4690 | | | 14 37.3 | -46 08 | 5.4 | 19" | Lup | double star magnitude contrast |
| ST505 | Alpha | Rigel Kentaurus | | 14 39.6 | -60 50 | 0 | 20" | Cen | double star |
| ST506 | Pi | Pi BOO | | 14 40.7 | +16.4 | 5 | 5.6" | Boo | double star |
| ST507 | pi | 1864 | | 14 40.7 | +16 25 | 4.9 | 6" | Boo | double star |
| ST508 | Zeta | | | 14 41.1 | +13 44 | 3.8 | 1" | Boo | double star challenge |
| ST509 | Alpha | Alpha LUP | | 14 41.9 | -47.4 | 2.3 | * | Lup | star |
| ST510 | q | q CEN | | 14 42.0 | -37.8 | 4 | * | Cen | star |
| ST511 | Alpha | Alpha CIR | | 14 42.5 | -65 | 3.2 | 16" | Cir | double star |
| ST512 | c1 | c1 CEN | | 14 43.7 | -35.2 | 4 | 17' | Cen | star |
| ST513 | Epsilon | Izar | | 14 45.0 | +27 04 | 2.4 | 3" | Boo | colored double star |
| ST514 | Dunlop | Dunlop 169 | | 14 45.2 | -55.6 | 6.2 | 68" | Cir | double star |
| ST515 | 54 | H 97 | | 14 46.0 | -25 26 | 5.2 | 8" | Hya | double star |
| ST516 | Alpha | Alpha APS | | 14 47.9 | -79 | 3.8 | 10° | Aps | star |
| ST517 | 1883 | | | 14 48.9 | +05 57 | 7.6 | 0.7" | Vir | double star challenge |
| ST518 | Mu | | | 14 49.3 | -14 09 | 5.4 | 2" | Lib | double star challenge |
| ST519 | 39 | | | 14 49.7 | +48 43 | 5.7 | 3" | Boo | double star |
| ST520 | 58 | 58 HYA | | 14 50.3 | -28 | 4.4 | * | Hya | star |
| ST521 | Kochab | Beta UMI | | 14 50.7 | +74.2 | 2.1 | * | Umi | star |
| ST522 | Zubenelgenubi | Alpha LIB | | 14 50.9 | -16 | 2.8 | 4' | Lib | double star |
| ST523 | Xi | 37 Boo | | 14 51.4 | +19 06 | 4.6 | 7" | Boo | colored double star |
| ST524 | h4715 | h4715 | | 14 56.5 | -47.9 | 6 | 2.4" | Lup | double star |
| ST525 | 33 | H 28 | | 14 57.3 | -21 22 | 5.9 | 23" | Lib | double star |
| ST526 | Beta | Beta LUP | | 14 58.5 | -43.1 | 2.6 | * | Lup | star |
| ST527 | Pi | Pi OCT | | 15 01.8 | -83.2 | 5.7 | 18' | Oct | double star |
| ST528 | 44 | | | 15 03.8 | +47 39 | 4.8 | 1.5" | Boo | double star challenge |
| ST529 | Sigma | Sigma LIB | | 15 04.1 | -25.3 | 3.2 | * | Lib | red variable star |
| ST530 | Dunlop178 | Dunlop 178 | | 15 11.6 | -45.3 | 6.7 | 32" | Lup | double star |
| ST531 | Kappa | Kappa LUP | | 15 11.9 | -48.7 | 3.9 | 27" | Lup | double star |
| ST532 | X | X TRA | | 15 14.3 | -70.1 | 8.1 | * | Tra | variable star |
| ST533 | 1932 | | | 15 18.3 | +26 50 | 6.6 | 1.5" | CrB | double star challenge |
| ST534 | Mu | Mu LUP | | 15 18.5 | -47.9 | 5.1 | 1.2" | Lup | double star challenge |
| ST535 | 1931 | | | 15 18.7 | +10 26 | 7 | 13" | Ser | double star |
| ST536 | S | S CRB | | 15 21.4 | +31.4 | 5.8 | * | Crb | variable star |
| ST537 | Phi1 | Phi1 LUP | | 15 21.8 | -36.3 | 3.6 | 50' | Lup | star |
| ST538 | Eta | | | 15 23.2 | +30 17 | 5.6 | 1.0" | CrB | double star challenge |
| ST539 | Mu | | | 15 24.5 | +37 23 | 4.3 | 2" | Boo | triple star |
| ST540 | Edasich | Iota DRA | | 15 24.9 | +59.0 | 3.3 | * | Dra | star |

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|------------------|--------------|---------|--------|-----|---------|-----|--------------------------------|
| ST541 Pi | 1972 | 15 29.2 | +80 26 | 6.9 | 31" | Umi | double star |
| ST542 Lal123 | | 15 33.1 | -24 29 | 7.5 | 9" | Lib | double star equal magnitude |
| ST543 Delta | Delta SER | 15 34.8 | +10.5 | 4 | 3.9" | Ser | double star |
| ST544 Gamma | Gamma LUP | 15 35.1 | -41.2 | 2.8 | * | Lup | star |
| ST545 h4788 | h4788 | 15 35.9 | -45 | 4.7 | 2.2" | Lup | double star |
| ST546 Upsilon | Upsilon LIB | 15 37.0 | -28.1 | 3.6 | 3" | Lib | colored double star |
| ST547 Omega | Omega LUP | 15 38.1 | -42.6 | 4.3 | * | Lup | red variable star |
| ST548 1962 | | 15 38.7 | -08 47 | 5.8 | 12" | Lib | double star equal magnitude |
| ST549 Tau | Tau LIB | 15 38.7 | -29.8 | 3.7 | 2° | Lib | star |
| ST550 Zeta | Zeta CRB | 15 39.4 | +36.6 | 5 | 6.3" | Crb | double star |
| ST551 Gamma | Gamma CRB | 15 42.7 | +26.3 | 4.2 | 0.3" | Crb | double star challenge |
| ST552 Alpha | Alpha SER | 15 44.3 | +06.4 | 2.7 | * | Ser | star |
| ST553 R | | 15 48.6 | +28 09 | 5.7 | Stellar | CrB | variable star |
| ST554 Kappa | Kappa SER | 15 48.7 | +18.1 | 4.1 | * | Ser | red variable star |
| ST555 R | R SER | 15 50.7 | +15.1 | 5.2 | * | Ser | variable star |
| ST556 Xi | | 15 56.9 | -33 58 | 5.2 | 10" | Lup | double star |
| ST557 Rho | Rho SCO | 15 56.9 | -29.2 | 3.9 | * | Sco | star |
| ST558 Epsilon | Epsilon CRB | 15 57.6 | +26.9 | 4.2 | * | Crb | star |
| ST559 Pi | Pi SCO | 15 58.9 | -26.1 | 2.9 | * | Sco | star |
| ST560 T | | 15 59.5 | +25 55 | 2 | Stellar | CrB | variable star |
| ST561 Eta | Rmk 21 | 16 00.1 | -38 24 | 3.6 | 15" | Lup | double star magnitude contrast |
| ST562 Delta | Delta SCO | 16 00.3 | -22.6 | 2.3 | * | Sco | star |
| ST563 Xi | | 16 04.4 | -11 22 | 4.2 | 1" | Sco | triple star challenge |
| ST564 Graffias | Beta SCO | 16 05.4 | -19.8 | 2.5 | * | Sco | star |
| ST565 Omega1 | Omega1 SCO | 16 06.8 | -20.7 | 4 | 14' | Sco | star |
| ST566 Kappa | | 16 08.1 | +17 03 | 5 | 28" | Her | colored double star |
| ST567 Nu | | 16 12.0 | -19 28 | 4 | 1" | Sco | quadruple star |
| ST568 Delta | Delta OPH | 16 14.3 | -3.7 | 2.7 | * | Oph | star |
| ST569 Sigma | 2032, 17 CrB | 16 14.7 | +33 52 | 5.2 | 7" | CrB | double star |
| ST570 Delta | Delta APS | 16 20.3 | -78.7 | 4.7 | * | Aps | double star |
| ST571 Sigma | H 121 | 16 21.2 | -25 35 | 2.9 | 20" | Sco | double star magnitude contrast |
| ST572 Rho | Rho OPH | 16 25.6 | -23.5 | 5.3 | 3.1" | Oph | double star |
| ST573 V | V OPH | 16 26.7 | -12.4 | 7.3 | * | Oph | variable star |
| ST574 Epsilon | Epsilon NOR | 16 27.2 | -47.6 | 4.8 | 23" | Nor | double star |
| ST575 Iota | Iota TRA | 16 28.0 | -64.1 | 5.3 | 20" | Tra | double star |
| ST576 2052 | Struve 2052 | 16 28.9 | +18.4 | 7.7 | 1.7" | Her | double star |
| ST577 Antares | Alpha SCO | 16 29.4 | -26.4 | 1 | 3" | Sco | double star challenge |
| ST578 Lambda | Lambda OPH | 16 30.9 | +02.0 | 4.2 | 1.4" | Oph | double star challenge |
| ST579 R | R DRA | 16 32.7 | +66.8 | 6.7 | * | Dra | variable star |
| ST580 16 | | 16 36.2 | +52 55 | 5.1 | 3" | Dra | triple star |
| ST581 H | H SCO | 16 36.4 | -35.3 | 4.2 | * | Sco | star |
| ST582 Zeta | Zeta OPH | 16 37.2 | -10.6 | 2.6 | * | Oph | star |
| ST583 SU | SU SCO | 16 40.6 | -32.4 | 8 | * | Sco | variable star |
| ST584 Zeta | Zeta HER | 16 41.3 | +31.6 | 3 | 1.4" | Her | colored double star |
| ST585 Alpha | Alpha TRA | 16 48.7 | -69 | 1.9 | * | Tra | star |
| ST586 Eta | Eta ARA | 16 49.8 | -59 | 3.8 | * | Ara | star |
| ST587 Epsilon | Epsilon SCO | 16 50.2 | -34.3 | 2.3 | * | Sco | star |
| ST588 Mu | Mu SCO | 16 52.3 | -38 | 3 | * | Sco | star |
| ST589 20 | 20 DRA | 16 56.4 | +65.0 | 7.1 | 1.4" | Dra | double star challenge |
| ST590 RR | RR SCO | 16 56.6 | -30.6 | 5.1 | * | Sco | variable star |
| ST591 Kappa | Kappa OPH | 16 57.7 | +09.4 | 3.2 | 75' | Oph | star |
| ST592 Zeta | Zeta ARA | 16 58.6 | -56 | 3.1 | * | Ara | star |
| ST593 Epsilon1 | Epsilon1 ARA | 16 59.6 | -53.2 | 4.1 | 40' | Ara | star |
| ST594 Mu | | 17 05.3 | +54 28 | 4.9 | 2" | Dra | double star equal magnitude |
| ST595 Eta | Eta OPH | 17 10.4 | -15.7 | 2.4 | 0.6" | Oph | double star challenge |
| ST596 Rasalgethi | Alpha HER | 17 14.6 | +14.4 | 3 | 4.6" | Her | double star equal magnitude |
| ST597 Delta | | 17 15.0 | +24 50 | 3.2 | 10" | Her | double star magnitude contrast |
| ST598 Pi | Pi HER | 17 15.0 | +36.8 | 3.2 | 7° | Her | star |
| ST599 36 | | 17 15.3 | -26 36 | 4.3 | 5" | Oph | double star equal magnitude |
| ST600 39 | | 17 18.0 | -24 17 | 5.2 | 10" | Oph | colored double star |
| ST601 Theta | Theta OPH | 17 22.0 | -25 | 3.3 | * | Oph | star |
| ST602 Rho | 2161, 75 Her | 17 23.7 | +37 09 | 4.2 | 4" | Her | double star |
| ST603 Beta | Beta ARA | 17 25.3 | -55.5 | 2.9 | * | Ara | star |
| ST604 Gamma | Gamma ARA | 17 25.4 | -56.4 | 3.3 | * | Ara | star |
| ST605 Sigma | Sigma OPH | 17 26.5 | +04.1 | 4.3 | 4° | Oph | star |
| ST606 h4949 | h4949 | 17 26.9 | -45.9 | 6 | 2.2" | Ara | double star |
| ST607 2173 | | 17 30.4 | -01 04 | 6 | 1.1" | Oph | double star challenge |
| ST608 Lambda | Lambda HER | 17 30.7 | +26.1 | 4.4 | * | Her | star |
| ST609 Upsilon | Upsilon SCO | 17 30.8 | -37.3 | 2.7 | * | Sco | star |
| ST610 Alpha | Alpha ARA | 17 31.8 | -49.9 | 3 | * | Ara | star |
| ST611 Nu | | 17 32.2 | +55 11 | 4.9 | 62" | Dra | double star equal magnitude |
| ST612 Shaula | Lambda SCO | 17 33.6 | -37.1 | 1.6 | 35' | Sco | star |
| ST613 Rasalhague | Alpha Oph | 17 34.9 | +12 34 | 2.1 | * | Oph | star |
| ST614 Iota | Iota HER | 17 39.5 | +46.0 | 3.8 | * | Her | star |

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|---------------------|----------------|---------|---------|--------|---------|-----|--------------------------------|----------------|
| ST615 Psi | | 2241 | 17 41.9 | +72 09 | 4.9 | 30" | Dra | double star |
| ST616 Kappa | Kappa SCO | 17 42.5 | -39 | 2.4 | 2.5° | Sco | star | |
| ST617 V | V PAV | 17 43.3 | -57.7 | 5.7 | * | Pav | variable star | |
| ST618 Beta | Beta OPH | 17 43.5 | +04.6 | 2.8 | * | Oph | star | |
| ST619 61 | 2202 | 17 44.6 | +02 34 | 6.2 | 21" | Oph | double star equal magnitude | |
| ST620 SZ | SZ SGR | 17 45.0 | -18.6 | 9 | * | Sgr | variable star | |
| ST621 SX | SX SCO | 17 47.5 | -35.7 | 8.5 | * | Sco | variable star | |
| ST622 G | G SCO | 17 49.9 | -37 | 3.2 | 2° | Sco | star | |
| ST623 Y | Y OPH | 17 52.6 | -6.2 | 6 | * | Oph | variable star | |
| ST624 Xi | Xi DRA | 17 53.5 | +56.9 | 3.8 | * | Dra | star | |
| ST625 Gamma | Gamma DRA | 17 56.6 | +51.5 | 2.2 | * | Dra | star | |
| ST626 Barnards Star | | 17 57.8 | +04 34 | 9.5 | Stellar | Oph | star | |
| ST627 h5003 | | 17 59.1 | -30 15 | 5 | 6" | Sgr | colored double star | |
| ST628 2038 | Struve 2038 | 18 00.0 | +80.0 | 5.7 | 20" | Dra | double star equal magnitude | |
| ST629 95 | | 18 01.5 | +21 36 | 4.3 | 6" | Her | double star equal magnitude | |
| ST630 Tau | Tau OPH | 18 03.1 | -8.2 | 5.2 | 1.8" | Oph | double star challenge | |
| ST631 70 | 2276 | 18 05.5 | +02 30 | 4 | 1.5" | Oph | double star challenge | |
| ST632 Theta | Theta ARA | 18 06.6 | -50.1 | 3.7 | * | Ara | star | |
| ST633 100 | 2280 | 18 07.8 | +26 06 | 5.9 | 14" | Her | double star equal magnitude | |
| ST634 W | W LYR | 18 14.9 | +36.7 | 7.3 | * | Lyr | variable star | |
| ST635 Eta | Eta SGR | 18 17.6 | -36.8 | 3.1 | * | Sgr | star | |
| ST636 Kappa | Kappa LYR | 18 19.9 | +36.1 | 4.3 | * | Lyr | star | |
| ST637 Delta | Delta SGR | 18 21.0 | -29.8 | 2.7 | * | Sgr | star | |
| ST638 2306 | | 18 22.2 | -15 05 | 7.9 | 10" | Sct | double star | |
| ST639 Xi | Xi PAV | 18 23.2 | -61.5 | 4.4 | * | Pav | star | |
| ST640 39 | 2323 | 18 24.0 | +58 48 | 4.9 | 4" | Dra | triple star | |
| ST641 21 | 21 SGR | 18 25.3 | -20.5 | 4.9 | 1.8" | Sgr | double star challenge | |
| ST642 Alpha | Alpha TEL | 18 27.0 | -46 | 3.5 | 6' | Tel | star | |
| ST643 59 | | 18 27.2 | +00 12 | 5.2 | 4" | Ser | colored double star | |
| ST644 Lambda | Lambda SGR | 18 28.0 | -25.4 | 2.8 | * | Sgr | star | |
| ST645 SS | SS SGR | 18 30.4 | -16.9 | 9 | * | Sgr | variable star | |
| ST646 Delta | Delta TEL | 18 31.8 | -45.9 | 5 | 11' | Tel | double star | |
| ST647 T | T LYR | 18 32.3 | +37.0 | 7.8 | * | Lyr | red variable star | |
| ST648 Kappa | 222 | 18 33.4 | -38 44 | 5.9 | 21" | CrA | double star equal magnitude | |
| ST649 2348 | | 18 33.9 | +52 18 | 6 | 26" | Dra | double star | |
| ST650 Alpha | Alpha SCT | 18 35.2 | -8.2 | 3.9 | * | Sct | star | |
| ST651 O 359 | | 18 35.5 | +23 36 | 6.3 | 0.7" | Her | double star challenge | |
| ST652 O 358 | ADS 11483 | 18 35.9 | +17.0 | 6.8 | 1.6" | Her | double star challenge | |
| ST653 Vega | Alpha Lyr | 18 36.9 | +38 47 | 0 | Stellar | Lyr | star | |
| ST654 X | X OPH | 18 38.3 | +08.8 | 5.9 | * | Oph | variable star | |
| ST655 HK | HK LYR | 18 42.8 | +37.0 | 9.5 | * | Lyr | variable star | |
| ST656 2398 | Struve 2398 | 18 43.0 | +59.6 | 8 | 13" | Dra | double star | |
| ST657 Epsilon | Double-Double, | | 18 44.3 | +39 40 | 4.7 | 2" | Lyr | quadruple star |
| ST658 Zeta | | 18 44.8 | +37 36 | 4.4 | 44" | Lyr | double star | |
| ST659 2375 | | 18 45.5 | +05 30 | 6.2 | 2" | Ser | double star equal magnitude | |
| ST660 5 | 2379 | 18 46.5 | -00 58 | 5.8 | 13" | Aql | triple star | |
| ST661 R | | 18 47.5 | -05 42 | 4.5 | Stellar | Sct | variable star | |
| ST662 Beta | | 18 50.0 | +33 24 | 3.5 | 47" | Lyr | double star magnitude contrast | |
| ST663 S | S SCT | 18 50.3 | -7.9 | 6.8 | 14.3" | Sct | double star | |
| ST664 2404 | | 18 50.8 | +10 59 | 6.9 | 4" | Aql | double star | |
| ST665 Omicron | 2420 | 18 51.2 | +59 22 | 4.9 | 35" | Dra | double star | |
| ST666 Delta2 | Delta2 LYR | 18 54.5 | +36.9 | 4.5 | * | Cyg | star | |
| ST667 O 525 | | 18 54.9 | +33 58 | 6 | 45" | Lyr | colored double star | |
| ST668 Sigma | Sigma SGR | 18 55.3 | -26.3 | 2 | * | Sgr | star | |
| ST669 13 | 13 LYR | 18 55.3 | +43.9 | 3.9 | 4.. | Lyr | star | |
| ST670 Theta | 2417, 63 Ser | 18 56.3 | +04 11 | 4.1 | 22" | Ser | double star | |
| ST671 ADS11871 | ADS 11871 | 18 57.0 | +32.9 | 5.4 | 1" | Lyr | double star challenge | |
| ST672 2422 | Struve 2422 | 18 57.1 | +26.1 | 8 | 0.7" | Lyr | double star challenge | |
| ST673 UV | UV AQL | 18 58.6 | +14.4 | 8.6 | * | Aql | variable star | |
| ST674 2426 | | 19 00.0 | +12 53 | 7.1 | 17" | Aql | colored double star | |
| ST675 BrsO14 | | 19 01.1 | -37 03 | 6.6 | 13" | Cra | double star equal magnitude | |
| ST676 h5082 | | 19 03.1 | -19 14 | 6 | 7" | Sgr | triple star | |
| ST677 V | | 19 04.4 | -05 41 | 6.6 | Stellar | Aql | red variable star | |
| ST678 15 | | 19 05.0 | -04 02 | 5.4 | 38" | Aql | colored double star | |
| ST679 Gamma | | 19 06.4 | -37 00 | 5 | 3" | Aql | double star equal magnitude | |
| ST680 R | | 19 06.4 | +08 14 | 5.5 | Stellar | Aql | red variable star | |
| ST681 2449 | | 19 06.4 | +07 09 | 7.2 | 8" | Aql | double star | |
| ST682 2474 | | 19 09.1 | +34 35 | 6.5 | 16" | Lyr | double star | |
| ST683 2486 | | 19 12.1 | +49 51 | 6.6 | 8" | Cyg | double star equal magnitude | |
| ST684 O 178 | O.Struve 178 | 19 15.3 | +15.1 | 5.7 | 90" | Aql | double star | |
| ST685 Tau | Tau DRA | 19 15.5 | +73.4 | 4.5 | * | Dra | star | |
| ST686 RY | RY SGR | 19 16.5 | -33.5 | 6 | * | Sgr | variable star | |
| ST687 U | | 19 18.8 | +19 37 | 6.6 | Stellar | Sge | variable star | |
| ST688 V1942 | V1942 SGR | 19 19.2 | -15.9 | 6.4 | * | Sgr | variable star | |
| ST689 UX | | 19 21.6 | +76 34 | 5.9 | Stellar | Dra | red variable star | |

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|-----------------|--------------|---------|--------|-----|---------|-----|--------------------------------|
| ST690 RR | | 19 25.5 | +42 47 | 7.1 | Stellar | Lyr | variable star |
| ST691 2525 | Struve 2525 | 19 26.6 | +27.3 | 8.1 | 2" | Vul | double star |
| ST692 h5114 | h5114 | 19 27.8 | -54.3 | 5.7 | 70" | Tel | double star |
| ST693 Alpha | Alpha VUL | 19 28.7 | +24.7 | 4.4 | * | Vul | star |
| ST694 Albireo | Beta CYG | 19 30.7 | +28.0 | 3 | 35" | Cyg | colored double star |
| ST695 Mu | Mu AQL | 19 34.1 | +07.4 | 4.5 | * | Aql | star |
| ST696 AQ | AQ SGR | 19 34.3 | -16.4 | 9.1 | * | Sgr | variable star |
| ST697 R | R CYG | 19 36.8 | +50.2 | 6.1 | * | Cyg | variable star |
| ST698 HN84 | | 19 39.4 | +16 34 | 6.4 | 28" | Sge | colored double star |
| ST699 54 | 54 SGR | 19 40.7 | -16.3 | 5.4 | 38" | Sgr | double star |
| ST700 TT | TT CYG | 19 40.9 | +32.6 | 7.8 | * | Cyg | variable star |
| ST701 16 | | 19 41.8 | +50 32 | 6 | 39" | Cyg | double star equal magnitude |
| ST702 Delta | 2579, 18 Cyg | 19 45.0 | +45 08 | 2.9 | 2" | Cyg | double star magnitude contrast |
| ST703 O 191 | H V 137 | 19 45.9 | +35 01 | 6 | 39" | Cyg | colored double star |
| ST704 Gamma | Gamma AQL | 19 46.3 | +10.6 | 2.7 | * | Aql | star |
| ST705 17 | 2580 | 19 46.4 | +33 44 | 5 | 26" | Cyg | double star magnitude contrast |
| ST706 Delta | Delta SGE | 19 47.4 | +18.5 | 3.8 | * | Sge | star |
| ST707 Epsilon | | 19 48.2 | +70 16 | 3.8 | 3" | Dra | double star magnitude contrast |
| ST708 Pi | Pi AQL | 19 48.7 | +11.8 | 6.1 | 1.4" | Aql | double star challenge |
| ST709 Zeta | | 19 49.0 | +19 09 | 5 | 9" | Sge | double star |
| ST710 Chi | | 19 50.6 | +32 55 | 3.3 | Stellar | Cyg | variable star |
| ST711 Altair | Alpha Aql | 19 50.8 | +08 52 | 0.8 | * | Aql | star |
| ST712 Eta | Eta AQL | 19 52.5 | +01.0 | 3.4 | * | Aql | variable star |
| ST713 57 | | 19 54.6 | -08 14 | 5.7 | 36" | Aql | double star |
| ST714 Beta | Beta AQL | 19 55.3 | +06.4 | 3.7 | 13" | Aql | double star |
| ST715 Psi | | 19 55.6 | +52 26 | 4.9 | 3" | Cyg | double star magnitude contrast |
| ST716 RR | RR SGR | 19 55.9 | -29.2 | 5.4 | * | Sgr | variable star |
| ST717 RU | RU SGR | 19 58.7 | -41.9 | 6 | * | Sgr | variable star |
| ST718 Gamma | Gamma SGE | 19 58.8 | +19.5 | 3.5 | * | Sge | star |
| ST719 BF | BF SGE | 20 02.4 | +21.1 | 8.5 | * | Sge | variable star |
| ST720 h1470 | | 20 03.6 | +38 19 | 7.6 | 29" | Cyg | colored double star |
| ST721 X | X SGE | 20 05.1 | +20.7 | 7 | * | Sge | variable star |
| ST722 WZ | WZ SGE | 20 07.6 | +17.7 | 7 | * | Sge | variable star |
| ST723 Kappa | 2675 | 20 08.9 | +77 43 | 4.4 | 7" | Cep | double star magnitude contrast |
| ST724 Theta | 2637 | 20 09.9 | +20 55 | 6.4 | 12" | Sge | triple star |
| ST725 RY | RY CYG | 20 10.4 | +36.0 | 8.5 | * | Cyg | variable star |
| ST726 FG | FG SGE | 20 11.9 | +20.3 | 9.5 | * | Sge | planetary nebula irregular |
| ST727 2644 | | 20 12.6 | +00 52 | 6.8 | 3" | Aql | double star equal magnitude |
| ST728 RS | RS CYG | 20 13.4 | +38.7 | 6.5 | * | Cyg | variable star |
| ST729 2658 | | 20 13.6 | +53 07 | 7.1 | 5" | Cyg | double star |
| ST730 Omicron1 | Omicron1 CYG | 20 13.6 | +46.7 | 3.8 | * | Cyg | star |
| ST731 RT | RT CAP | 20 17.1 | -21.3 | 8.9 | * | Cap | variable star |
| ST732 Alpha | Alpha CAP | 20 17.6 | -12.5 | 4.2 | 44" | Cap | star |
| ST733 RT | RT SGR | 20 17.7 | -39.1 | 6 | * | Sgr | variable star |
| ST734 P | | 20 17.8 | +38 02 | 3 | Stellar | Cyg | variable star |
| ST735 Alpha | | 20 18.0 | -12 32 | 3.8 | 7" | Cap | quadruple star |
| ST736 2671 | | 20 18.4 | +55 23 | 6 | 4" | Cyg | double star |
| ST737 U | U CYG | 20 19.6 | +47.9 | 5.9 | * | Cyg | variable star |
| ST738 Beta | Beta CAP | 20 21.0 | -14.8 | 3.4 | 3' | Cap | double star |
| ST739 39 | 39 CYG | 20 23.9 | +32.2 | 4.4 | * | Cyg | star |
| ST740 Peacock | Alpha PAV | 20 25.6 | -56.7 | 1.9 | * | Pav | star |
| ST741 pi | | 20 27.3 | -18 13 | 5.3 | 3" | Cap | double star magnitude contrast |
| ST742 Omicron | SHJ 324 | 20 29.9 | -18 35 | 6.1 | 19" | Cap | double star |
| ST743 49 | 2716 | 20 41.0 | +32 18 | 5.5 | 3" | Cyg | double star magnitude contrast |
| ST744 V | V CYG | 20 41.3 | +48.2 | 7.7 | * | Cyg | variable star |
| ST745 Deneb | Alpha Cyg | 20 41.4 | +45 17 | 1.3 | * | Cyg | star |
| ST746 52 | 52 CYG | 20 45.7 | +30.7 | 4.2 | 6" | Cyg | double star |
| ST747 Gamma | | 20 46.7 | +16 07 | 4.3 | 10" | Del | double star |
| ST748 Lambda | Lambda CYG | 20 47.4 | +36.5 | 4.9 | 0.9" | Cyg | double star challenge |
| ST749 3 | 3 AQR | 20 47.7 | -5 | 4.4 | * | Aqr | red variable star |
| ST750 S763 | | 20 48.4 | -18 11 | 6.7 | 16" | Cap | double star |
| ST751 4 | 4 AQR | 20 51.4 | -5.6 | 6.4 | 0.8" | Aqr | double star challenge |
| ST752 Omega | Omega CAP | 20 51.8 | -26.9 | 4.1 | * | Cap | star |
| ST753 Epsilon | 1 Equ | 20 59.1 | +04 18 | 5.2 | 1" | Equ | triple star challenge |
| ST754 2751 | Struve 2751 | 21 02.1 | +56.7 | 6.1 | 1.5" | Cep | double star challenge |
| ST755 2 | 2742 | 21 02.2 | +07 11 | 7.4 | 3" | Equ | double star equal magnitude |
| ST756 Dunlop236 | Dunlop 236 | 21 02.2 | -43 | 6 | 57" | Mic | double star |
| ST757 Lambda | Lambda EQU | 21 02.2 | +07.2 | 7.4 | 3" | Equ | double star |
| ST758 12 | | 21 04.1 | -05 49 | 5.9 | 3" | Aqr | double star challenge |
| ST759 Xi | Xi CYG | 21 04.9 | +43.9 | 3.7 | * | Cyg | star |
| ST760 61 | 2758 | 21 06.9 | +38 39 | 5.2 | 29" | Cyg | double star |
| ST761 24 | 24 CAP | 21 07.1 | -25 | 4.5 | * | Cap | stellar planetary nebula |
| ST762 T | T CEP | 21 09.5 | +68.5 | 5.2 | * | Cep | variable star |
| ST763 Gamma | Gamma EQU | 21 10.3 | +10.1 | 4.7 | 6' | Equ | double star |

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|---------|-----------|------------------------|---------|--------|-----|---------|-----|--------------------------------|
| ST764 | 2780 | | | | | | | |
| ST765 | Delta | Struve 2780 | 21 11.8 | +60.0 | 5.6 | 1.0" | Cep | double star challenge |
| ST766 | Theta | | 21 14.5 | +10 00 | 4.6 | 48" | Equ | double star magnitude contrast |
| ST767 | RY | Theta IND | 21 19.9 | -53.5 | 4.5 | 6" | Ind | double star |
| ST768 | Y | RY AQR | 21 20.3 | -10.8 | 8 | * | Aqr | variable star |
| ST769 | Beta | Y PAV | 21 24.3 | -69.7 | 8.6 | * | Pav | variable star |
| ST770 | S | | 21 28.7 | +70 33 | 3.3 | 13" | Cep | double star magnitude contrast |
| ST771 | 2816 | | 21 35.2 | +78 37 | 7.4 | Stellar | Cep | red variable star |
| ST772 | V460 | | 21 39.0 | +57 29 | 5.6 | 12" | Cep | triple star |
| ST773 | SS | V460 CYG | 21 42.0 | +35.5 | 5.6 | * | Cyg | variable star |
| ST774 | RV | | 21 42.7 | +43 35 | 8.2 | Stellar | Cyg | variable star |
| ST775 | Mu | Herschel's Garnet Star | 21 43.5 | +58 47 | 3.4 | Stellar | Cep | red variable star |
| ST776 | Epsilon | | 21 44.2 | +09 52 | 2.5 | 83" | Peg | double star magnitude contrast |
| ST777 | Lambda | Lambda OCT | 21 50.9 | -82.7 | 5.4 | 3" | Oct | double star |
| ST778 | AG | AG PEG | 21 51.0 | +12.6 | 6 | * | Peg | variable star |
| ST779 | 2840 | | 21 52.0 | +55 47 | 5.5 | 18" | Cep | double star |
| ST780 | 2841 | Struve 2841 | 21 54.3 | +19.7 | 6.4 | 22" | Peg | double star |
| ST781 | RX | RX PEG | 21 56.4 | +22.9 | 8 | * | Peg | variable star |
| ST782 | 2873 | | 21 58.4 | +82 51 | 7.1 | 14" | Cep | double star equal magnitude |
| ST783 | Eta | β 276 | 22 00.8 | -28 27 | 5.8 | 1.9" | Psa | double star |
| ST784 | 29 | | 22 02.5 | -16 58 | 7.2 | 4" | Aqr | double star equal magnitude |
| ST785 | Xi | | | | | | | |
| 17 Cep, | 2863 | | 22 03.8 | +64 38 | 4.3 | 8" | Cep | double star |
| ST786 | O 461 | O.Struve 461 | 22 03.9 | +59.8 | 6.7 | 11.1" | Cep | double star |
| ST787 | Lambda | Lambda GRU | 22 06.1 | -39.5 | 4.5 | * | Gru | star |
| ST788 | Al Nair | Alpha Gru | 22 08.2 | -46 58 | 1.7 | Stellar | Gru | star |
| ST789 | 2883 | | 22 10.7 | +70 07 | 5.7 | 15" | Cep | double star |
| ST790 | Zeta | Zeta CEP | 22 10.9 | +58.2 | 3.4 | * | Cep | star |
| ST791 | h1746 | h1746 | 22 13.9 | +39.7 | 4.5 | 28" | Lac | double star |
| ST792 | 41 | | 22 14.3 | -21 04 | 5.3 | 5" | Aqr | colored double star |
| ST793 | 1 | 1 LAC | 22 16.0 | +37.7 | 4.1 | * | Lac | star |
| ST794 | Alpha | Alpha TUC | 22 18.5 | -60.3 | 2.9 | 5' | Tuc | star |
| ST795 | 2894 | | 22 18.9 | +37 46 | 6.1 | 16" | Lac | colored double star |
| ST796 | Pi | Pi GRU | 22 23.1 | -45.9 | 5.8 | 2.7" | Gru | double star |
| ST797 | S | S GRU | 22 26.1 | -48.4 | 6 | * | Gru | variable star |
| ST798 | 53 | | 22 26.6 | -16 45 | 6.4 | 3" | Aqr | double star equal magnitude |
| ST799 | Delta | Delta TUC | 22 27.3 | -65 | 4.5 | 7" | Tuc | double star |
| ST800 | Kruger60 | Kruger 60 | 22 28.1 | +57.7 | 9.8 | 3" | Cep | double star |
| ST801 | Zeta | | 22 28.8 | -00 01 | 4.3 | 2" | Aqr | double star challenge |
| ST802 | Delta | | 22 29.2 | +58 25 | 3.8 | 20" | Cep | colored double star |
| ST803 | 5 | 5 LAC | 22 29.5 | +47.7 | 4.4 | 5' | Lac | star |
| ST804 | Delta2 | Delta2 GRU | 22 29.8 | -43.7 | 4.1 | 15' | Gru | red variable star |
| ST805 | 37 | 37 PEG | 22 30.0 | +04.4 | 5.8 | 1" | Peg | double star challenge |
| ST806 | Roe47 | | 22 32.5 | +39 46 | 5.8 | 43" | Lac | quadruple star |
| ST807 | 8 | | 22 35.9 | +39 38 | 6.5 | 22" | Lac | triple star |
| ST808 | 11 | 11 LAC | 22 40.5 | +44.3 | 4.5 | * | Lac | star |
| ST809 | Beta | Beta GRU | 22 42.7 | -46.9 | 2.1 | * | Gru | star |
| ST810 | Tau1 | Tau1 AQR | 22 47.7 | -14.1 | 5.7 | 23" | Aqr | double star |
| ST811 | 2947 | Struve 2947 | 22 49.0 | +68.6 | 7 | 4.3" | Cep | double star |
| ST812 | Tau2 | Tau2 AQR | 22 49.6 | -13.6 | 4 | 40' | Aqr | star |
| ST813 | 2950 | Struve 2950 | 22 51.4 | +61.7 | 6.1 | 1.7" | Cep | double star |
| ST814 | h1823 | | 22 51.8 | +41 19 | 7.1 | 82" | Lac | quadruple star |
| ST815 | Lambda | Lambda AQR | 22 52.6 | -7.6 | 3.7 | * | Aqr | star |
| ST816 | Fomalhaut | Alpha PsA | 22 57.6 | -29 37 | 1.2 | * | PsA | star |
| ST817 | 52 | 52 PEG | 22 59.2 | +11.7 | 6.1 | 0.7" | Peg | double star challenge |
| ST818 | Scheat | Beta PEG | 23 03.8 | +28.1 | 2.4 | * | Peg | star |
| ST819 | Dunlop246 | Dunlop 246 | 23 07.2 | -50.7 | 6.1 | 9" | Gru | double star |
| ST820 | 2978 | | 23 07.5 | +32 49 | 6.3 | 8" | Peg | double star |
| ST821 | Pi | Pi CEP | 23 07.9 | +75.4 | 4.6 | 1.2" | Cep | double star challenge |
| ST822 | Phi | Phi AQR | 23 14.3 | -6 | 4.2 | * | Aqr | red variable star |
| ST823 | Psi3 | Psi3 AQR | 23 19.0 | -9.6 | 5 | 1.5" | Aqr | double star |
| ST824 | 94 | | 23 19.1 | -13 28 | 5.1 | 13" | Aqr | colored double star |
| ST825 | Dunlop249 | Dunlop 249 | 23 23.9 | -53.8 | 6.5 | 27" | Gru | double star |
| ST826 | 99 | 99 AQR | 23 26.0 | -20.6 | 4.4 | * | Aqr | star |
| ST827 | Z | | 23 33.7 | +48 49 | 8 | Stellar | And | variable star |
| ST828 | Gamma | Gamma CEP | 23 39.3 | +77.6 | 3.2 | * | Cep | star |
| ST829 | Theta | Theta PHE | 23 39.5 | -46.6 | 6.6 | 4" | Phe | double star |
| ST830 | R | | 23 43.8 | -15 17 | 5.8 | Stellar | Aqr | variable star |
| ST831 | 107 | | 23 46.0 | -18 41 | 5.3 | 7" | Aqr | double star equal magnitude |
| ST832 | TX | 19 Psc | 23 46.4 | +03 29 | 6.9 | Stellar | Psc | red variable star |
| ST833 | 3042 | | 23 51.8 | +37 53 | 7.8 | 5" | And | double star equal magnitude |
| ST834 | Lal192 | | 23 54.4 | -27 03 | 6.9 | 7" | Scl | double star |
| ST835 | R | | 23 58.4 | +51 24 | 4.7 | Stellar | Cas | variable star |
| ST836 | Sigma | | 23 59.0 | +55 45 | 4.9 | 3" | Cas | colored double star |
| ST837 | 3050 | | 23 59.5 | +33 43 | 6.6 | 1.5" | And | double star challenge |

WARRANTY / REPAIR

TELESCOPE LIFETIME LIMITED WARRANTY

Your Bushnell® telescope is warranted to be free of defects in materials and workmanship for the lifetime of the original owner. The Lifetime Limited Warranty is an expression of our confidence in the materials and mechanical workmanship of our products and is your assurance of a lifetime of dependable service.

If your telescope contains electrical components the electronic components are warranted to be free of defects in materials and workmanship for one year after the date of purchase.

In the event of a defect under this warranty, we will, at our option, repair or replace the product, provided that you return the product postage prepaid. This warranty does not cover damages caused by misuse or improper handling, installation or maintenance of the product.

Any return made under this warranty
must be accompanied by the items listed below:

- 1) A check in the amount of \$15.00 to cover the cost of handling
- 2) Name and address for product return
- 3) An explanation of the defect
- 4) Product should be well packed in a sturdy outside shipping carton
to prevent damage in transit and return postage prepaid to the
address listed below:

IN U.S.A. Send To:

Bushnell Performance Optics
8500 Marshall Drive
Lenexa, Kansas 66214

IN CANADA Send To:

Bushnell Performance Optics
25A East Pearce Street, Unit 1
Richmond Hill, Ontario L4B 2M9

For products purchased outside the United States and Canada please contact your local dealer for applicable warranty information. This warranty gives you specific legal rights. You may have other rights which vary from country to country.

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NOTES

For further questions or additional information please contact:

**Bushnell Performance Optics
8500 Marshall Drive
Lenexa, Kansas 66214
(800) 423-3537 • www.bushnell.com**